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Latest revision:			Lab/Office:	PMC DESIGN 14 Rel: 23D COPYRIGHT page	Status:	Plant: =	Page 1
			RA/RDP		Approved	Location: +	
Prepared by, date: A Hågglund	Approved by, date: S Hällgren 2023-10-30				Document no.	Rev. Ind	Total 125
					3HAC026871-020	14	

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TABLE OF CONTENTS

PAGE	PAGE DESCRIPTION	Date	Edited by
1	COPYRIGHT page	2017-03-17	Thomas
2	TABLE OF CONTENTS	2021-05-04	sethsta
3	TABLE OF CONTENTS	2021-05-04	sethsta
4	TABLE OF CONTENTS	2020-09-11	SETHSTA
5	TABLE OF CONTENTS	2020-09-11	SETHSTA
7	Device list sorted by Location	2020-09-11	sethsta
10	REVISION INFOMATION	2021-05-04	sethsta
11	SYMBOL INFORMATION	2020-03-20	sethsta
12	VIEW OF CONTROL MODULE	2020-03-20	sethsta
12.1	INTERFACE BOARD, ANYBUS	2018-10-15	SETHSTA
13	VIEW OF CONTACTOR & AXIS COMPUTER UNIT	2020-03-20	sethsta
14	BLOCK DIAGRAM CONTROL UNIT	2020-03-20	sethsta
15	PROCESS POWER SUPPLY	2023-10-18	SEANHAG7
16	OPTION : POWER SUPPLY DEVICENET	2020-03-20	sethsta
16.5	RUN CHAIN block diagram in PANEL BOARD A21 and CONTROL PANEL S21	2020-03-20	sethsta
17	RUN CHAIN and PANEL BOARD A21 Sh. 1 of 3	2023-10-18	SEANHAG7
18	RUN CHAIN and PANEL BOARD A21 Sh. 2 of 3	2023-10-18	SEANHAG7
19	RUN CHAIN and PANEL BOARD A21 Sh. 3 of 3	2023-10-18	SEANHAG7
20	RUN CHAIN A21 EXTERNAL CONTROLL PANEL/BOX , 2 & 3 MODE SELECTOR, EM.STOP	2020-09-11	SETHSTA
20.1	EXTERNAL CONTROLL PANEL/BOX RUN CHAIN EXT.S21, 2 & 3 MODE SELECTOR	2023-10-18	SEANHAG7
21	RUN CHAIN EXT A21 OPERATING WITH OPT: HOT PLUG rel 11.1	2020-09-11	sethsta
22	FPU, FLEXPENDANT and option HOT PLUG	2020-09-11	SETHSTA
22.1	FPU, FLEXPENDANT and Opt. HOLD TO RUN DEVICE T10 JOGGING DEVICE	2020-09-10	SETHSTA
22.2	FPU, Extended FLEXPENDANT cable 15 - 30 m	2020-09-10	SETHSTA
23	MAIN COMPUTER DSQC1000/1018/1024	2020-09-11	SETHSTA
24	MAIN COMPUTER DSQC1000/1018/1024	2020-03-20	sethsta
24.3	SAFETY BOARD A31.4 HARDWARE SWITCH	2023-10-18	SEANHAG7
24.4	SAFETY BOARD A31.4 SOFTWARE SWITCH	2020-03-20	sethsta
24.5	SAFETY BOARD A31.4 DSQC1015 Hardware and Software based Mode Switch	2023-10-18	SEANHAG7
25	FIELD BUS ADAPTER: ETHERNET/IP, PROFIBUS and PROFINET IO	2020-03-20	sethsta
26	PROFIBUS DP M	2020-03-20	sethsta
27	DEVICENET ADAPTER	2020-03-20	sethsta
28	DIGITAL PART OF COMBI I/O AND DIGITAL I/O UNIT	2020-03-20	sethsta

Latest revision:

Prepared by, date: A Hägglund
 Approved by, date: S Hällgren 2023-10-30



Lab/Office:
RA/RDP

PMC DESIGN 14 Rel: 23D
TABLE OF CONTENTS

Status:
Approved

Plant: =
Location: +
Sublocation: +

Document no.
3HAC026871-020

Rev. Ind Page2
14 Next 3
Total 125

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TABLE OF CONTENTS

PAGE	PAGE DESCRIPTION	Date	Edited by
29	DIGITAL I/O UNIT	2020-03-20	sethsta
30	COMBI I/O UNIT	2020-03-20	sethsta
31	ANALOGUE I/O UNIT	2020-03-20	sethsta
32	RELAY I/O UNIT	2020-03-20	sethsta
33	RELAY I/O UNIT	2020-03-20	sethsta
34	REMOTE I/O UNIT	2020-03-20	sethsta
34.2	Local I/O Digital Base 16in/16out	2020-03-20	sethsta
34.4	Local I/O Digital add on 16in/16out	2020-03-20	sethsta
34.6	Local I/O Analog add on 4in/4out	2020-03-20	sethsta
34.8	Local I/O Relay add on 8RO/8DI	2020-03-20	sethsta
35	INTERBUS SLAVE	2020-03-20	sethsta
36	PROFIBUS DP SLAVE	2020-03-20	sethsta
37	ETHERNET SWITCH	2020-03-20	sethsta
37.1	ETHERNET SWITCH A34, option MULTI MOVE 604-1/2	2023-10-18	SEANHAG7
37.2	ETHERNET SWITCH A64/CAMERA	2021-05-03	SETHSTA
37.3	VISION, INTEGRATED CAMERAS	2020-03-20	sethsta
38	ENCODER UNIT	2020-03-20	sethsta
38.5	CONVEYOR TRACKING MODULE, DSQC 2000	2020-03-20	sethsta
39	CC-LINK	2020-03-20	sethsta
40	REMOTE SERVICE BOX for Rel. 16.1 and earlier	2020-03-20	sethsta
40.1	REMOTE SERVICE BOX DSQC1016/DSQC1023 from Rel. 16.2	2020-03-20	sethsta
41	BLOCK DIAGRAM DRIVE UNIT	2020-03-20	sethsta
42	VIEW OF DRIVE MODULE LV	2020-03-20	sethsta
43	VIEW OF DRIVE MODULE HV	2020-03-20	sethsta
44	TRANSFORMER UNIT 262V	2020-03-20	sethsta
45	TRANSFORMER UNIT 480V	2020-03-20	sethsta
46	POWER SUPPLY	2020-03-20	sethsta
47	CONTACTOR BOARD	2021-05-03	SETHSTA
48	CONTACTOR UNIT	2023-10-18	SEANHAG7
49	AXIS COMPUTER and MAIN SERVO DRIVE UNITS	2020-03-20	sethsta
50	CONTACTOR UNIT	2020-03-20	sethsta
51	AXIS COMPUTER BOARD	2020-03-20	sethsta
52	FORCE MEASUREMENT BOX	2020-03-20	sethsta

Latest revision:

Prepared by, date: A Hägglund Approved by, date: S Hällgren 2023-10-30



Lab/Office:
RA/RDP

PMC DESIGN 14 Rel: 23D
TABLE OF CONTENTS

Status:
Approved

Plant: =
Location: +
Sublocation: +

Document no.
3HAC026871-020

Rev. Ind Page3
14 Next 4
Total 125

TABLE OF CONTENTS

PAGE	PAGE DESCRIPTION	Date	Edited by
53	EPS	2020-03-20	sethsta
54	SAFE MOVE	2020-03-20	sethsta
55	SAFE MOVE	2020-03-20	sethsta
56	MAIN DRIVE UNIT	2020-03-20	sethsta
57	OPTION : FAN UNIT	2020-03-20	sethsta
57.1	SERVO DRIVE SYSTEM IRB 120	2020-09-10	SETHSTA
57.2	CONTROL CABLE IRB 120	2020-03-20	sethsta
57.3	CUSTOMER SIGNALS IRB 120	2020-03-20	sethsta
58	SERVO DRIVE SYSTEM IRB 140	2020-03-20	sethsta
59	CONTROL CABLE IRB 140	2020-03-20	sethsta
60	CUSTOMER SIGNAL IRB 140	2020-03-20	sethsta
61	SERVO DRIVE UNIT IRB 260	2020-03-20	sethsta
62	CONTROL CABLE IRB 260	2020-03-20	sethsta
63	CUSTOMER POWER/SIGNAL IRB 260	2020-03-20	sethsta
64	SERVO DRIVE UNITS IRB 360	2020-03-20	sethsta
65	CONTROL CABLE IRB 360	2023-10-18	SEANHAG7
66	CUSTOMER SIGNAL IRB 360	2020-03-20	sethsta
66.1	CUSTOMER POWER/SIGNAL SINGLE CABINET IRB 360	2020-03-20	sethsta
67	SERVO DRIVE SYSTEM IRB 460	2020-03-20	sethsta
68	CONTROL CABLE IRB 460	2023-10-18	SEANHAG7
69	SERVO DRIVE SYSTEM IRB 660, 760	2020-03-20	sethsta
70	CONTROL CABLE IRB 660, 760	2020-03-20	sethsta
71	CUSTOMER POWER/SIGNAL IRB460, 660, 760	2020-03-20	sethsta
72	CAN, PROf-bus,CP/CS,Profinet IRB460, 660, 760	2020-09-10	SETHSTA
72.1	SERVO DRIVE SYSTEM IRB 1200	2020-03-20	sethsta
72.2	CONTROL CABLE IRB 1200	2023-10-18	SEANHAG7
72.3	CUSTOMER SIGNAL SINGLE CABINET IRB 1200	2020-03-20	sethsta
73	SERVO DRIVE UNIT IRB 1600/1660	2020-03-20	sethsta
74	CONTROL CABLE IRB 1600/1660	2020-03-20	sethsta
75	CUSTOMER POWER/SIGNAL IRB 1600/1660	2020-03-20	sethsta
76	SERVO DRIVE UNIT IRB 2400	2020-03-20	sethsta
77	CONTROL CABLE IRB 2400	2020-03-20	sethsta
78	CUSTOMER POWER/SIGNAL IRB 2400	2020-03-20	sethsta

Latest revision:

Prepared by, date:A Hågglund Approved by, date:S Hållgren 2023-10-30



Lab/Office:
RA/RDP

PMC DESIGN 14 Rel: 23D
TABLE OF CONTENTS

Status:
Approved

Plant: =
Location: +
Sublocation: +

Document no.
3HAC026871-020

Rev. Ind Page4
14 Next 5
Total 125

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1	2	3	4	5	6	7	8
Location name	Function name	Page	Location name	Function name	Page		
-EXT-S21-S22	Option HOT PLUG	21	-G3	ENERGY BANK	15		
-EXT-S21-S22-H1	SIGNAL LAMP	21	-G6	OPTION : DEVICENET POWER SUPPLY	16		
-A21	PANEL BOARD	17	-I/O.X	ANALOGUE I/O UNIT	31		
-A31	MAIN COMPUTER	23	-I/Ox	DIG. PART OF COMBI I/O AND DIG. I/O UNIT	28		
-A31.2	DeviceNet M/S DSQC1006	27	-K42	MOTORS ON CONTACTOR 1	48		
-A31.3	PROFIBUS M	26	-K43	MOTORS ON CONTACTOR 2	48		
-A31.4	Safety Board DSQC1015	24.5	-K44	BRAKE CONTACTOR	48		
-A32	OPTION: Expansion board SERIE DSQC1003	24	-M140-A41.1	MAIN SERVO DRIVE UNIT	58		
-A32.1	ETHERNET/IP Fieldbus adapter DSQC 669 Slave	25	-Q1	Option Main Switch	45		
-A32.2	PROFIBUS Fieldbus adapter DSQC 667 Slave	25	-R1.1-1	BLEEDER for LV	56		
-A32.3	PROFINET IO Fieldbus adapter DSQC 688 Slave	25	-R1.1-2	BLEEDER for LV	56		
-A32.4	DEVICENET IO Fieldbus adapter DSQC 1004 Slave	25	-R1.1-3	BLEEDER for HV	56		
-A34	opt. MULTI MOVE 604-1/2 ETHERNET SWITCH	37.1	-S22	Option with HOT PLUG	22		
-A41.1	MAIN DRIVE UNIT	56	-S22-H1	SIGNAL LAMP	22		
-A41.1-2	MAIN SERVO DRIVE UNIT	49	-T1.1	TRANSFORMER UNIT	45		
-A41.1-6	MAIN SERVO DRIVE UNIT	76	-T1.2	TRANSFORMER UNIT	44		
-A42	AXIS COMPUTER BOARD	49	-T1.3	TRANSFORMER UNIT	45		
-A44	SAFE MOVE	51	-Z1	Filter three phase	45		
-A61	Option: REMOTE SERVICE BOX	40	-Z2	REAKTOR UNIT	45		
-A64	Ethernet switch	37.2					
-A65	Ethernet switch	37					
-A67- CTM,	Coveyor Tracking DSQC2000	38.5					
-C1	CAPACITOR	70					
-E1	OPTION : FAN UNIT	57					
-EXT-A21-S21.2-H1	MOTOR ON (LAMP)	20					
-EXT-ETH_FPU	FLEXPENDANT	22.1					
-EXT-ETH_FPU-USB	FLEXPENDANT	22.1					
-EXT-S21	EXTERNAL CONTROL PANEL/BOX Sh.2	20.1					
-EXT-S21.1	3-MODE SELECTOR	20					
-EXT-S21.2	MOTOR ON PB	20					
-EXT-S21.3	EMERGENCY PB	20					
-EXT-T10	T10 JOGGING DEVICE	22.1					
-EXT-T10.1	HOLD TO RUN DEVICE	22.1					
-EXT-T10-ETH_FPU	FLEXPENDANT	22.1					
-F1	OPTION : AUTOMATIC FUSE	48					
-F2-HV	OPTION : AUTOMATIC FUSE	46					
-F2-LV	OPTION : AUTOMATIC FUSE	46					
-FMB	Option: 738-1	52					
-FMB-A1	DSQC686 VOLTAGE MEASURE BOARD	52					
-G1	DRIVE POWER SUPPLY	46					
-G2	PROCESS POWER SUPPLY	15					

Latest revision:			Lab/Office: RA/RDP	PMC DESIGN 14 Rel: 23D	Status: 2023-10-30 Approved	Plant: = Location: + Sublocation: +	Document no. 3HAC026871-020	Rev. Ind 14	Page7 Next 10 Total 125
Prepared by, date: A Hågglund	Approved by, date: S Hållgren				Device list sorted by the Location name				

Revision 10 2019 03 Rel 19.A

Information: New release indentification 19.A, 19.B, 19.C, 19.D the releases is presented four times every year, instead of two times before.

Sh.10 Revision sheet updated for 19.a

34.2 wire number 787 , 785 , 786 added,
column 7//0V_INT1, +24V_INT1 0V_INT2, +24V_INT2

34.4 0V_INT, +24V_INT

34.6 0V_INT, +24V_INT

34.8 0V_INT, +24V_INT

42 X6 and x7 shifted location

Revision 11 2020 03 Rel 19.B--20.A

Sh. All The DRAFT text was removed from all sheets in column 5 in the frame.

Sh.10 Revision sheet updated for 19.B

Sh.12 Main computer DSQC1024 add.

Sh.20, 20.1, 21, 22, 22.1, 22.2, was updated Soft ware/Hard ware switch.

Sh.23 Main computer DSQC1024 add.

Sh.24 Main computer DSQC1024 add.

Sh.57.4, 57.5, 57.6 new sheet added.

Revision 12 2020 09 Rel 20.B

Structure update from IRC5 to PMC

Sh.7 Device list updated.

Sh.10 Revision sheet updated for 20.B

Sh.72 Profinet added to 460,660,760

Revision 13 2021 05 Rel 21.C

Sh.1 Copyright updated 2021

Sh.2 Table of contents updated

Sh.3 Table of contents updated

Sh.10 Revision sheet updated for 21.C

Sh.18 X5:3, :5, :9, :11 Jumper text add. Not connected. Ref to manual. Column 1.

Sh.19 Enable_1 and Enable_2 column 7 changed direction.

Revision 14 2023 10 Rel 23D

Sh. 17/18/19/20.1/24.5/48 Implementation of SafeMove.

Sh. 24.3 Misspelling of contact -S21 was -XP37

Sh. 15/37.1 Misspelling of contact -XP1 was -XP39

Sh. 68/80/86/92 Jumper added to PTC-circuit.

Sh. 71 Misspelling of contact -R1.CP/CS was -R1.SMB

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Latest revision:



Lab/Office:

RA/RDP

PMC DESIGN 14 Rel: 23D
REVISION INFOMATION

Status:

Approved

Plant: =

Location: +

Sublocation: +

Document no.

3HAC026871-020

Rev. Ind

14

Page 10

Next 11

Total 125

Prepared by, date: A Hägglund

Approved by, date: S Hällgren

2023-10-30

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1	2	3	4	5	6	7	8																				
	Stomme, ramverk/ Functional equipotential bonding		Slutkontakt/ Make contact, general.		Filter/ Filter.	Column coordinate number on the drawing Wire/connector one colour code. BK = Black, BN = Brown, RD = Red, OG = Orange YE = Yellow, GN = Green, BU = Blue, VT = Violet GY = Grey, WH = White, PK = Pink, TQ = Turquoise Wire/connector two colour code. Example 1 : WH/RD = White and Red. Example 2 : GNYE = Green and Yellow. Example: Cable with four colour coded wire, square area AWG24 and cable number 709.																					
	Stomme, ramverk/ Functional equipotential bonding		Handmanövrerad brytare, allmän/ Switch manually operated, general.		Lampa/ Lamp.																						
	Jord, allmän symbol/ Earth , general symbol.		Styrning med spak/ Actuator (operated by lever).		Kontakthylsa hona/ Socket outlet female.	Example 1 : WH/RD = White and Red. Example 2 : GNYE = Green and Yellow. Example: Cable with four colour coded wire, square area AWG24 and cable number 709.																					
	Störningsfri jord/ Functional earthing.		Styrning genom vridning/ Actuator(operated by turning).		Kontaktstift hane/ Pin male.																						
	Skyddsjord/ Protective earthing.		Styrning genom tryckning/ Actuator(operated by pushing).		Strömtransformator/ Current transformer.	Translation table square area from AWG to mm2. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>AWG28</td><td>0,093</td><td>AWG18</td><td>0,93</td></tr> <tr> <td>AWG26</td><td>0,15</td><td>AWG16</td><td>1,25</td></tr> <tr> <td>AWG24</td><td>0,25</td><td>AWG14</td><td>2,44</td></tr> <tr> <td>AWG22</td><td>0,34</td><td>AWG12</td><td>3,02</td></tr> <tr> <td>AWG20</td><td>0,56</td><td>AWG10</td><td>4,65</td></tr> </table>		AWG28	0,093	AWG18	0,93	AWG26	0,15	AWG16	1,25	AWG24	0,25	AWG14	2,44	AWG22	0,34	AWG12	3,02	AWG20	0,56	AWG10	4,65
AWG28	0,093	AWG18	0,93																								
AWG26	0,15	AWG16	1,25																								
AWG24	0,25	AWG14	2,44																								
AWG22	0,34	AWG12	3,02																								
AWG20	0,56	AWG10	4,65																								
	Tvinnade ledare/ Twisted conductors.		Styrning, elektromagnetisk styrdon/ Actuator, by electromagnetic.		Likström, DC / Direct current, DC.	Run chain presentation starts at sheet 13. The Run chain marked as a wider wire. <u>Example: Run chain marked with a wider wire.</u> Example: Not Run chain marked with a thin wire.																					
	Trippel tvinnade ledare/ Triple twisted conductors.		PAST DESIGN Old component design. Old circuit design. Old phased out option.		Växelström, AC / Alternating current, AC.																						
	Fyrdubbelt tvinnade ledare/ Quadruple twisted conductors.				Varistor/ Varistor	Example, showing how to read the information before and after a signal. 																					
	Tvinnade ledare part A med part B Twisted conductors part A with part B																										
	Skärm/ Shield.																										

Latest revision:

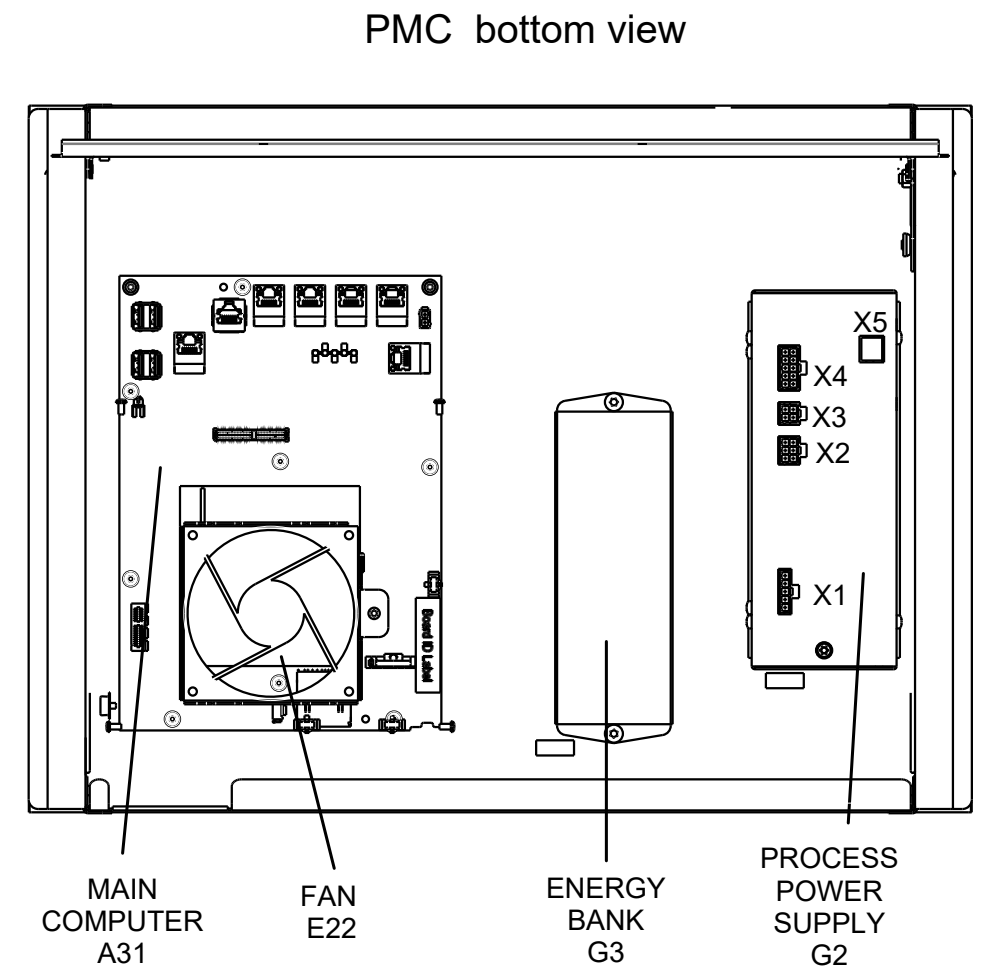
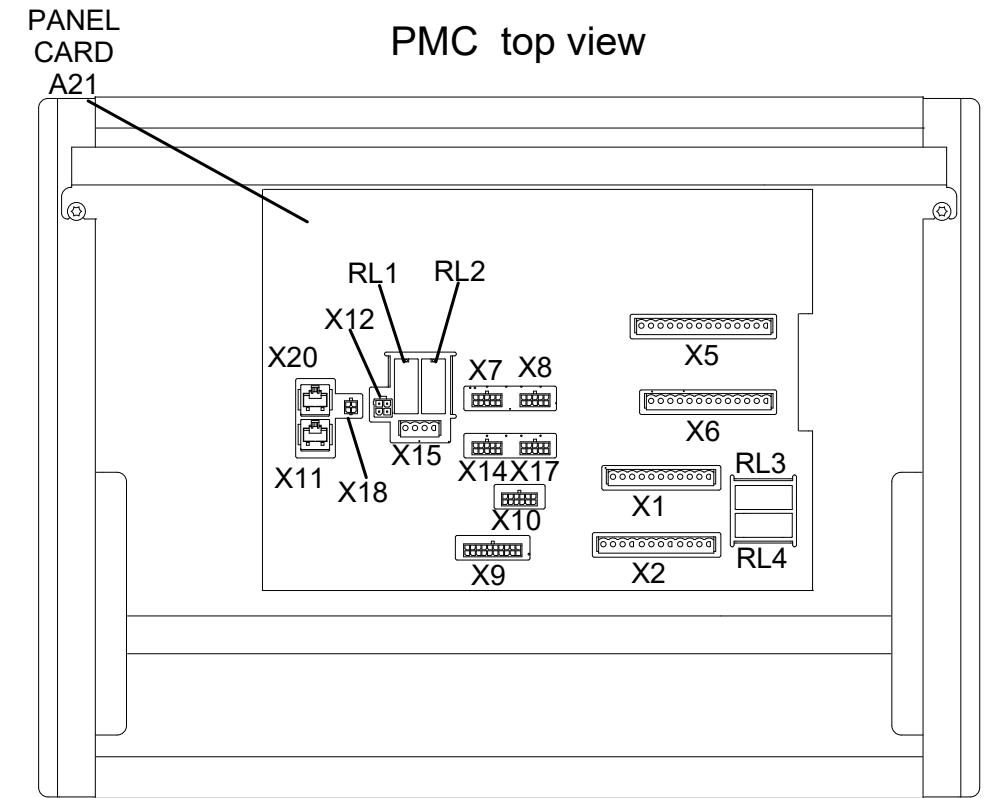
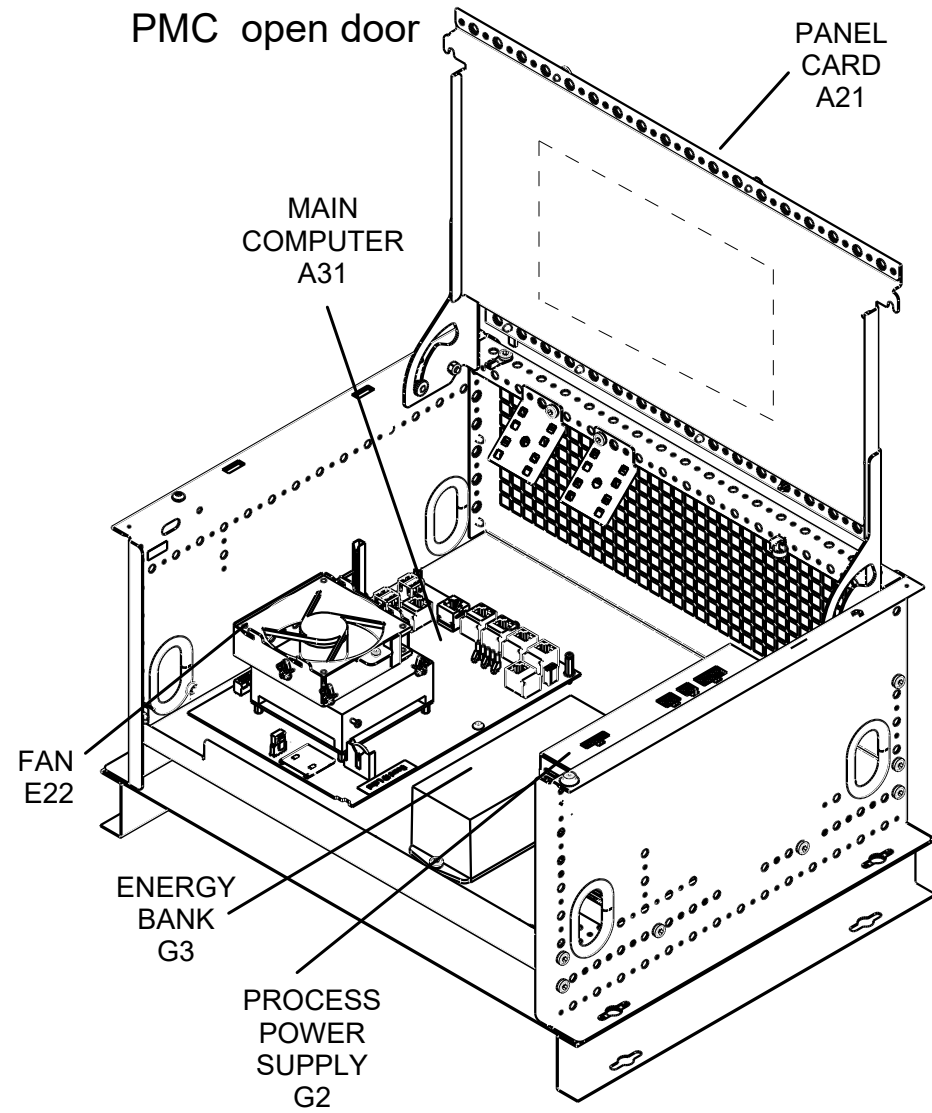
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RA/RDP

 PMC DESIGN 14 Rel: 23D
 SYMBOL INFORMATION

Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HAC026871-020	Rev. Ind 14
Page 11 Next 12 Total 125	

Main Computer Unit DSQC1000 Rel. 15.2 and earlier
 Main Computer Unit DSQC1018 Rel. 16.1
 Main Computer Unit DSQC1024 Rel. 20.A



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Lab/Office: RA/RDP	PMC DESIGN 14 Rel: 23D VIEW OF CONTROL MODULE
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Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HAC026871-020	Rev. Ind 14
	Page 12 Next 12.1 Total 125

Interface Board
 Old: DSQC1001
 New: DSQC1017
 3HAC050354-001

POWER

Pin no 1 = 0V
 Pin no 2 = 24V

A31.1

PANEL UNIT

WAN

LAN 3

LAN 2

LAN 1

LAN 1

10/100

10/100

10/100/1000

10/100/1000

10/100/1000

AXC

USB 2/1
X10

USB 4/3
X11

X9

X7

X6

X5

X4

X3

X1

X15

X16

2, 4, 6, ... 78, 80
 1, 3, 5, ... 77, 79

COM Express module
 New DSQC1022/1026
 Old DSQC1002

Battery BT1
 DSQC1017

X12

X20

BT1
 Old: Battery
 in DSQC1001

Pin 3 = 0V
 Pin 2 = Tacho
 Pin 1 = 24V

X19 Fan power

X13 SD card 2GB
 DSQC1008

A31.3 PROFIBUS M PCI
 DSQC1005

A31.2 DeviceNet M/S PCI
 DSQC1006

AnybusCC/RS232
 Expansion Board
 DSQC1003

Console
 Com1

Profibus/S A32.4

ProfiNet/S A32.3
 Ethernet /IP/S A32.1

DeviceNet/S A32.2
 DSQC1004

Back side 80,78... ..6, 4, 2
 Front side 79,77... ..5, 3, 1

A32
 3HAC046408-001

Front side

X1

X3

A31.4 PROFIBUS M PCI
 DSQC1005

A31.4 Safety board
 DSQC1015

New: DSQC2000 Opt.1551-1
 3HNA027579-001

A67 CONVEYOR TRACKING CMT

X11--X13 X1 X3

X7 WAN

X6 LAN

X5 LAN

X21--X28

X20

BAR-CODE
 AREA
 CTM-01
 Art. No.: 3HNA027579-001
 Rev. No.: r
 Ser. No.: SSSSS#YYWWNNNN

DSQC 2000
 CTM-01

ABB
 ABB AB, Sweden
 Box 268, S-4349 Bjergby, Norway

CAMERA
 POWER
 X20

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2023-10-30



Lab/Office:
 RA/RDP

PMC DESIGN 14 Rel: 23D
 INTERFACE BOARD, ANYBUS

Status:
 Approved

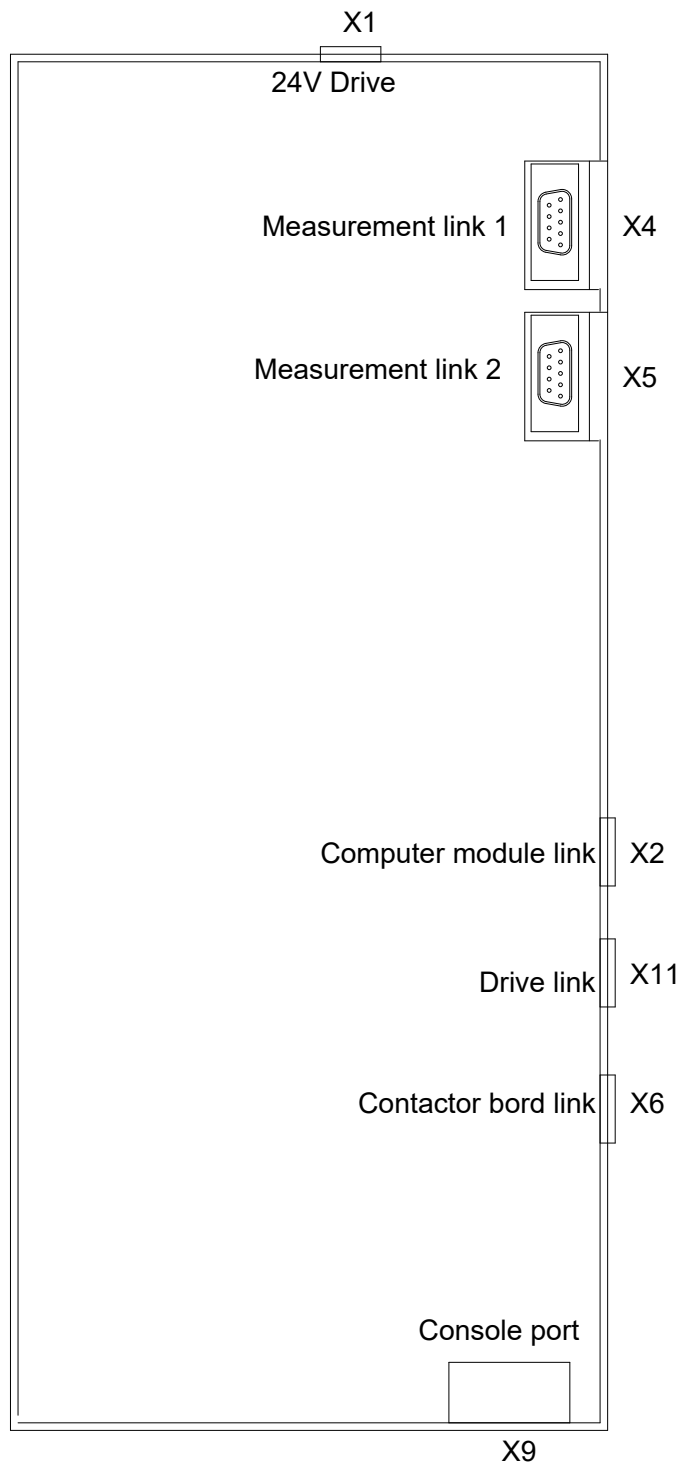
Plant: =
 Location: +
 Sublocation: +

Document no.
 3HAC026871-020

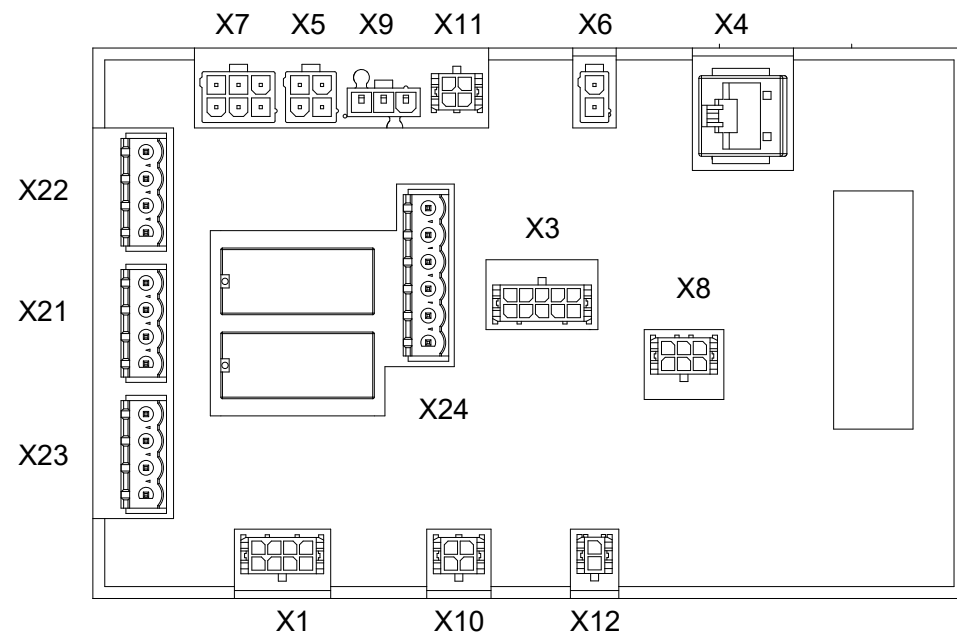
Rev. Ind
 14
 Page 12.1
 Next 13
 Total 125

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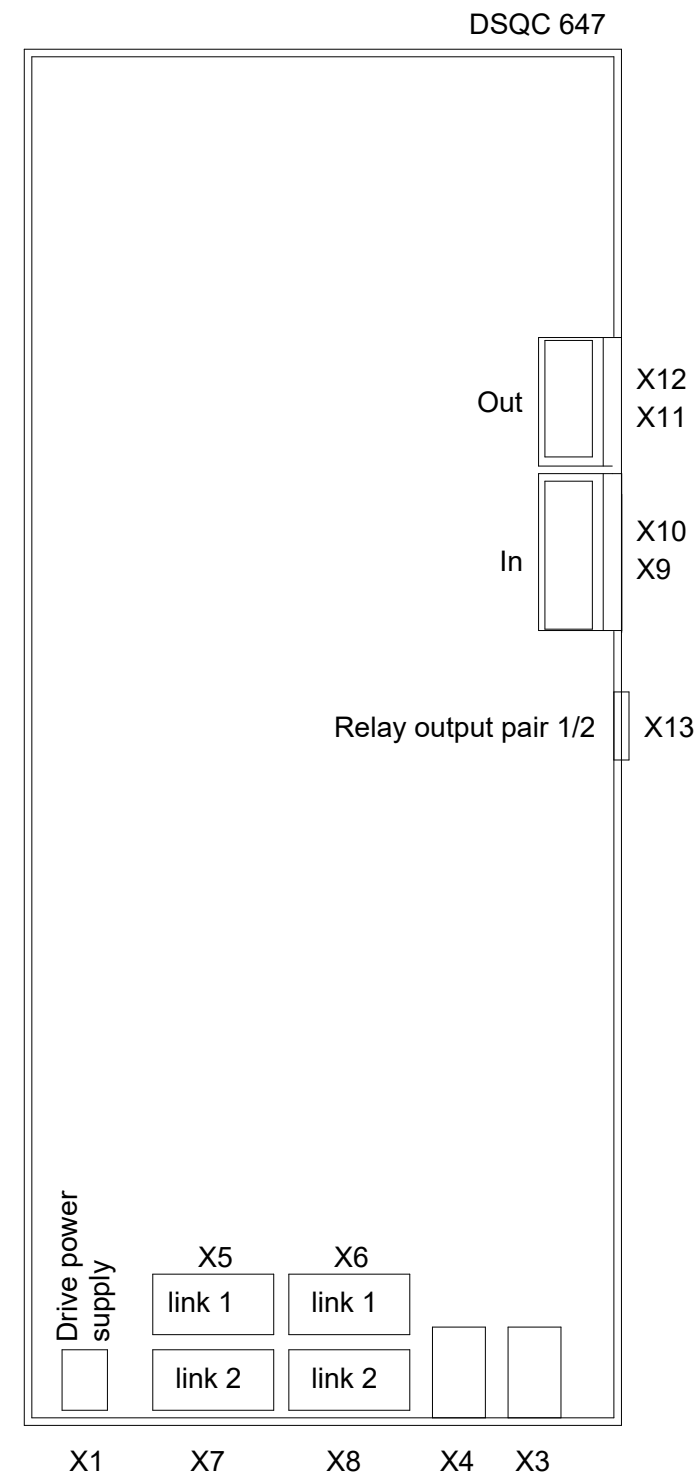
A42 Axis computer unit



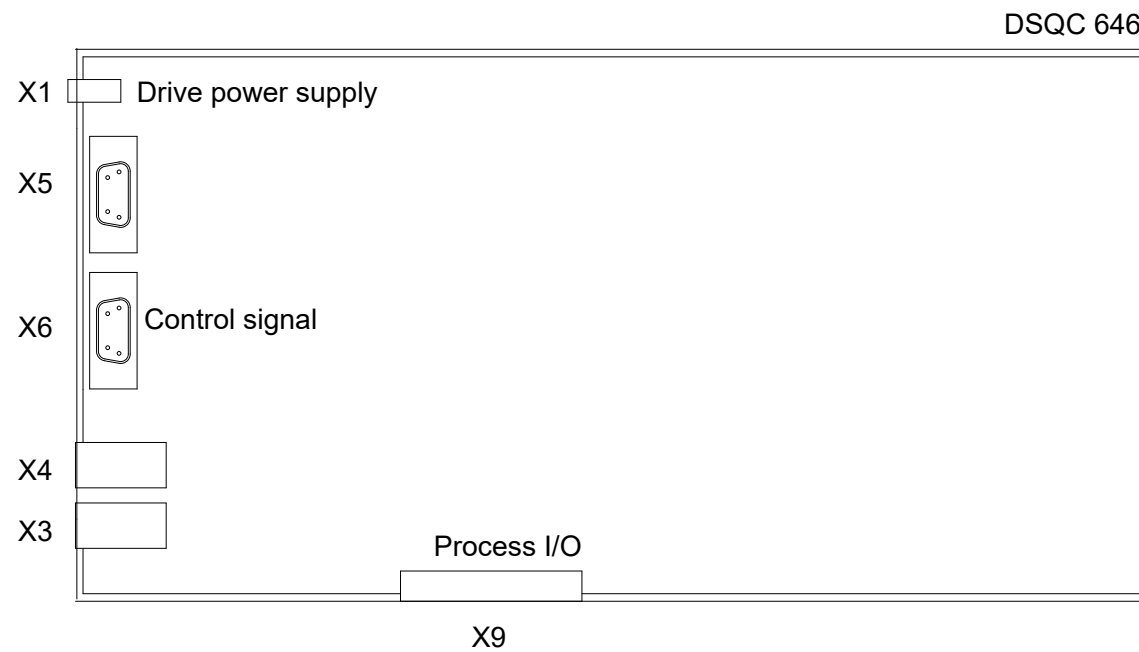
A43 Contactor unit



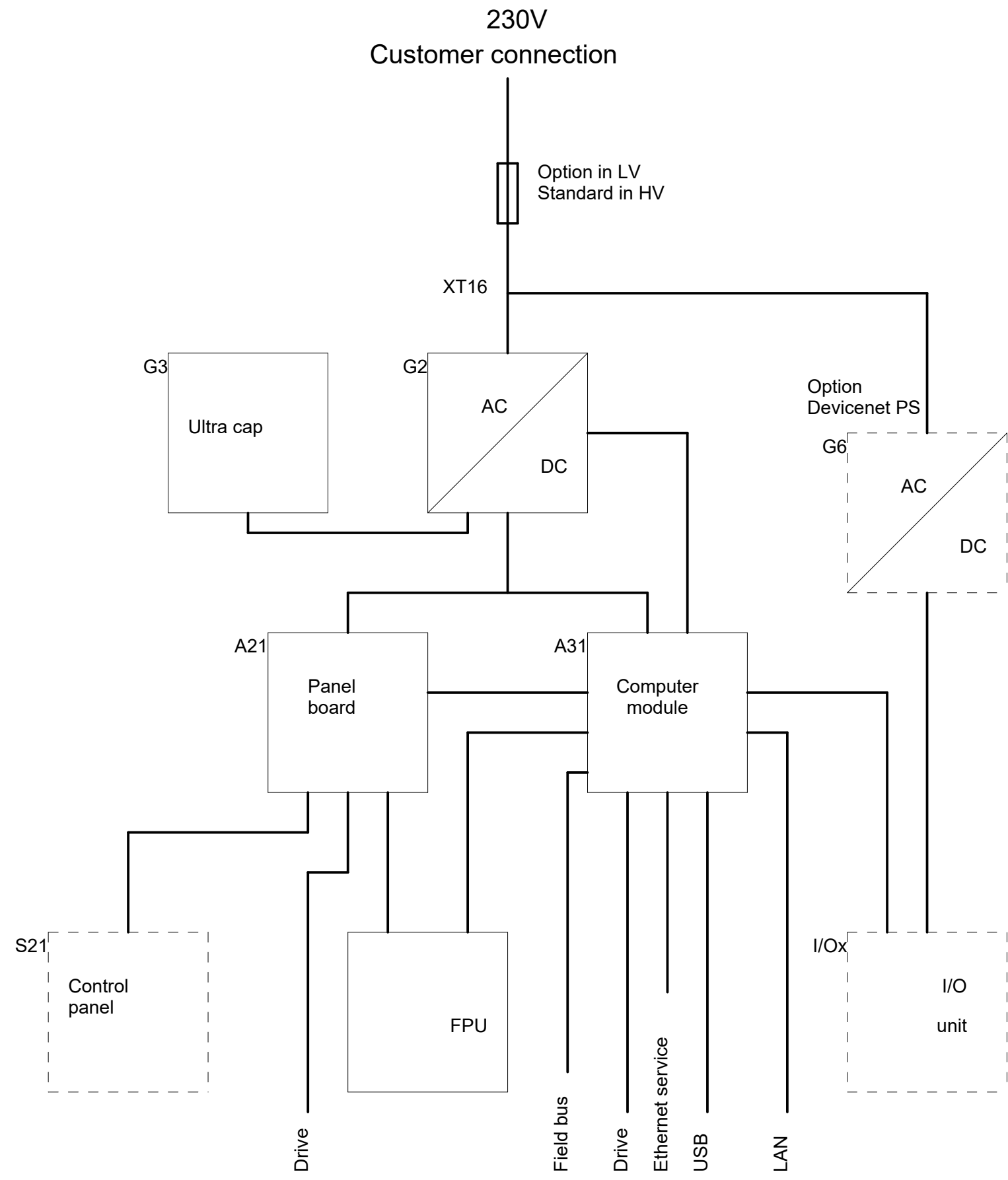
A44 Safe move



A44 EPS unit



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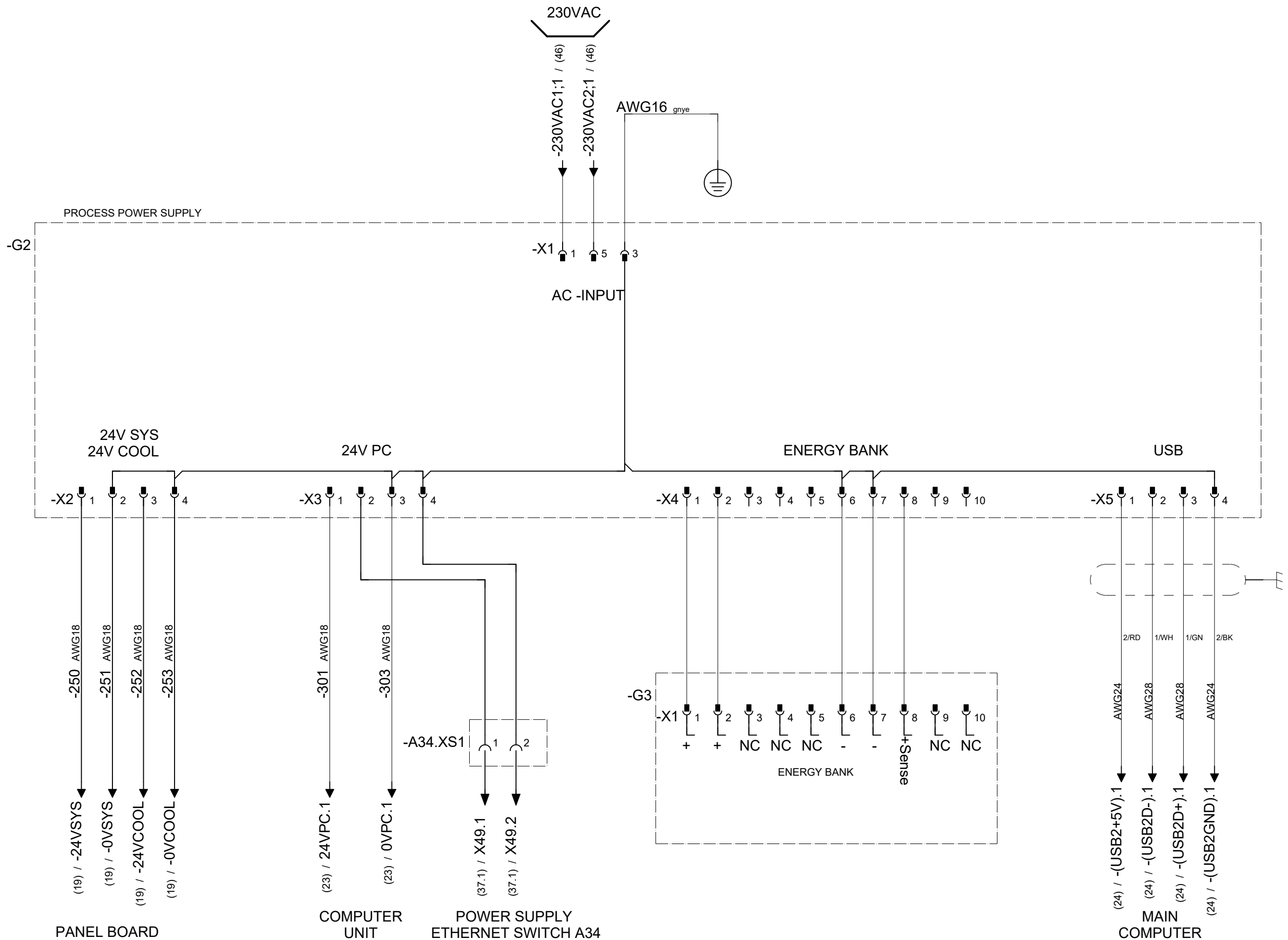


Lab/Office: RA/RDP

PMC DESIGN 14 Rel: 23D
BLOCK DIAGRAM CONTROL UNIT

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	Page 14 Next 15 Total 125

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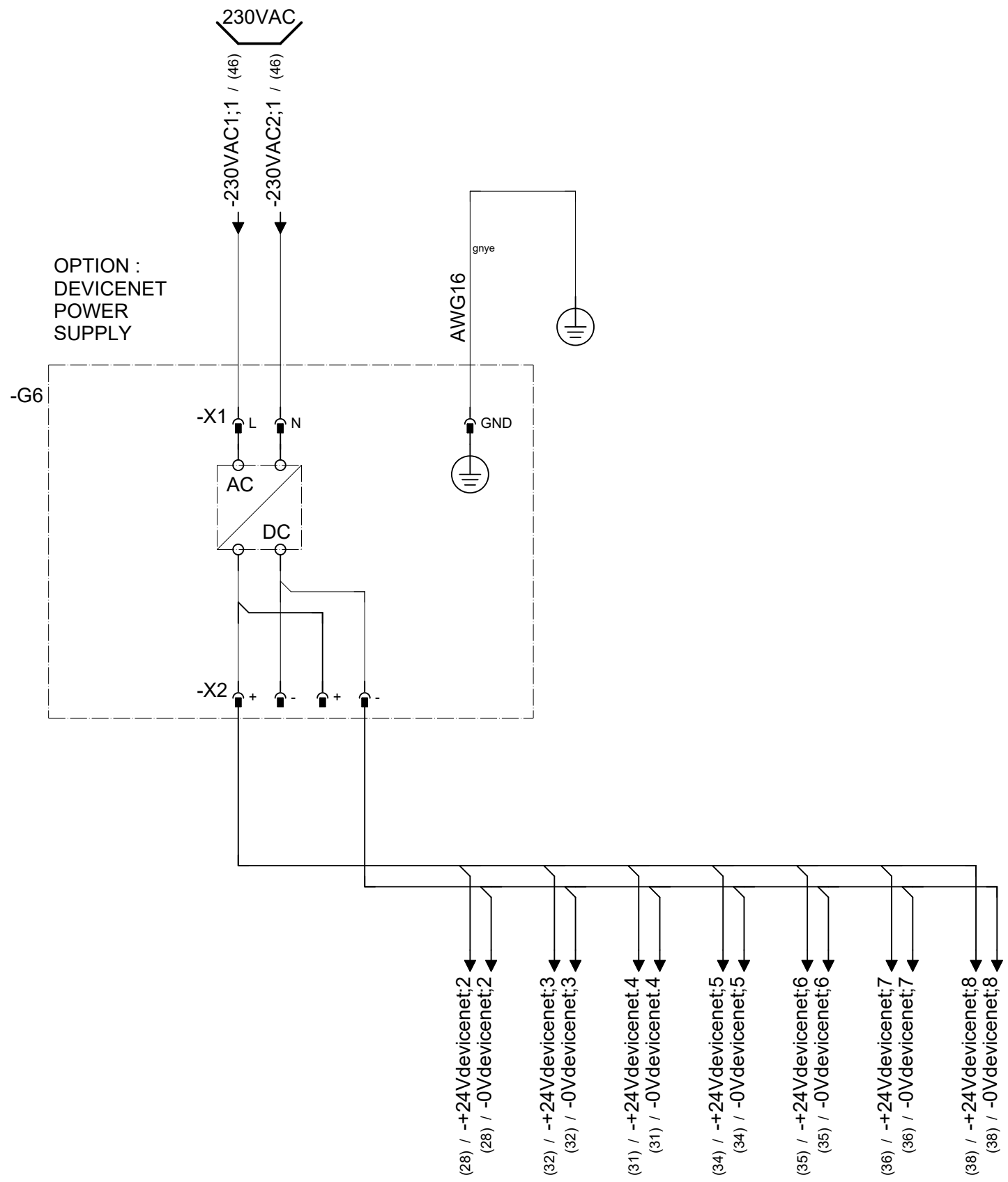
PMC DESIGN 14 Rel: 23D
PROCESS POWER SUPPLY

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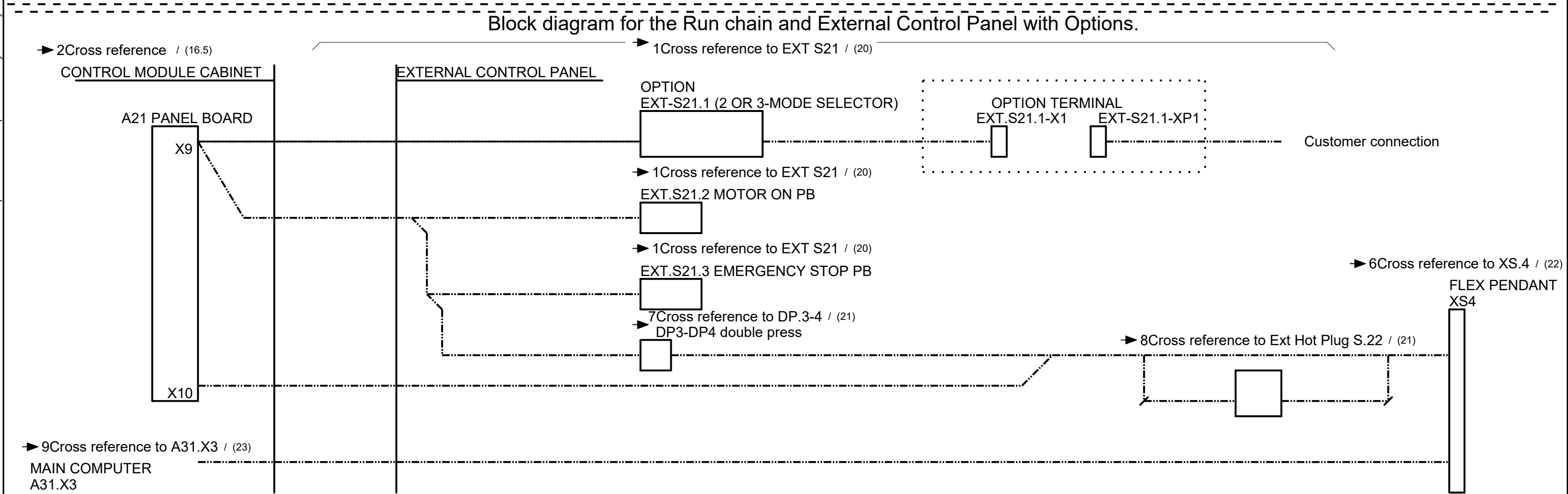
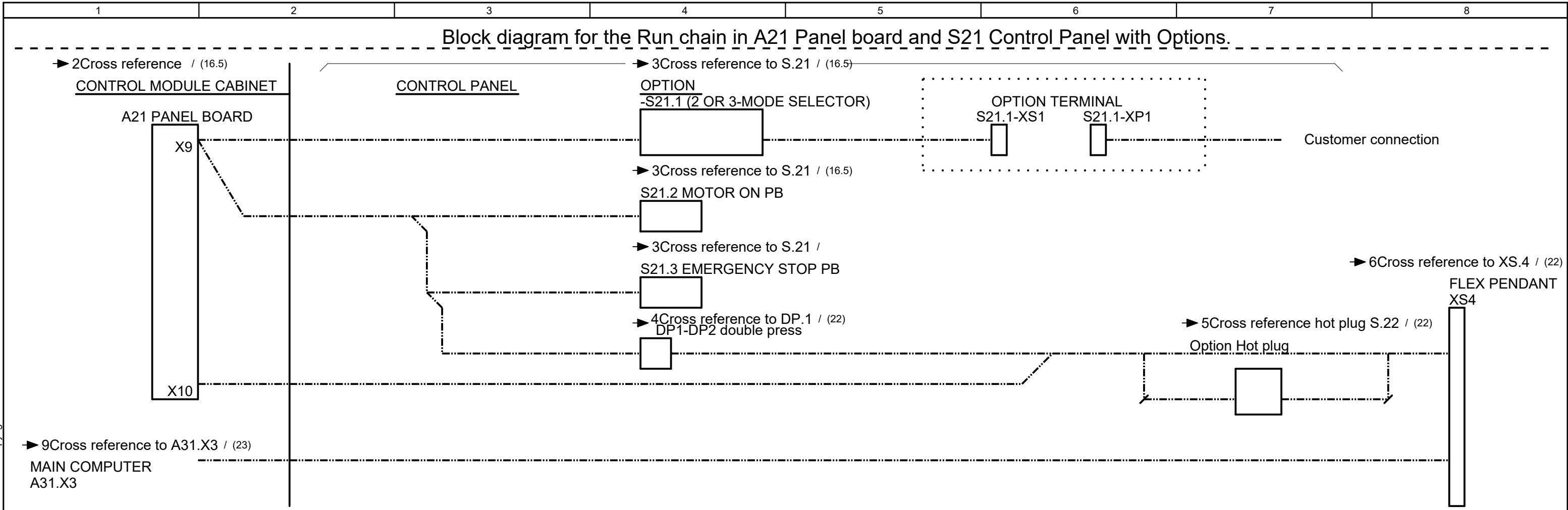
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RA/RDP

PMC DESIGN 14 Rel: 23D
OPTION : POWER SUPPLY DEVICENET

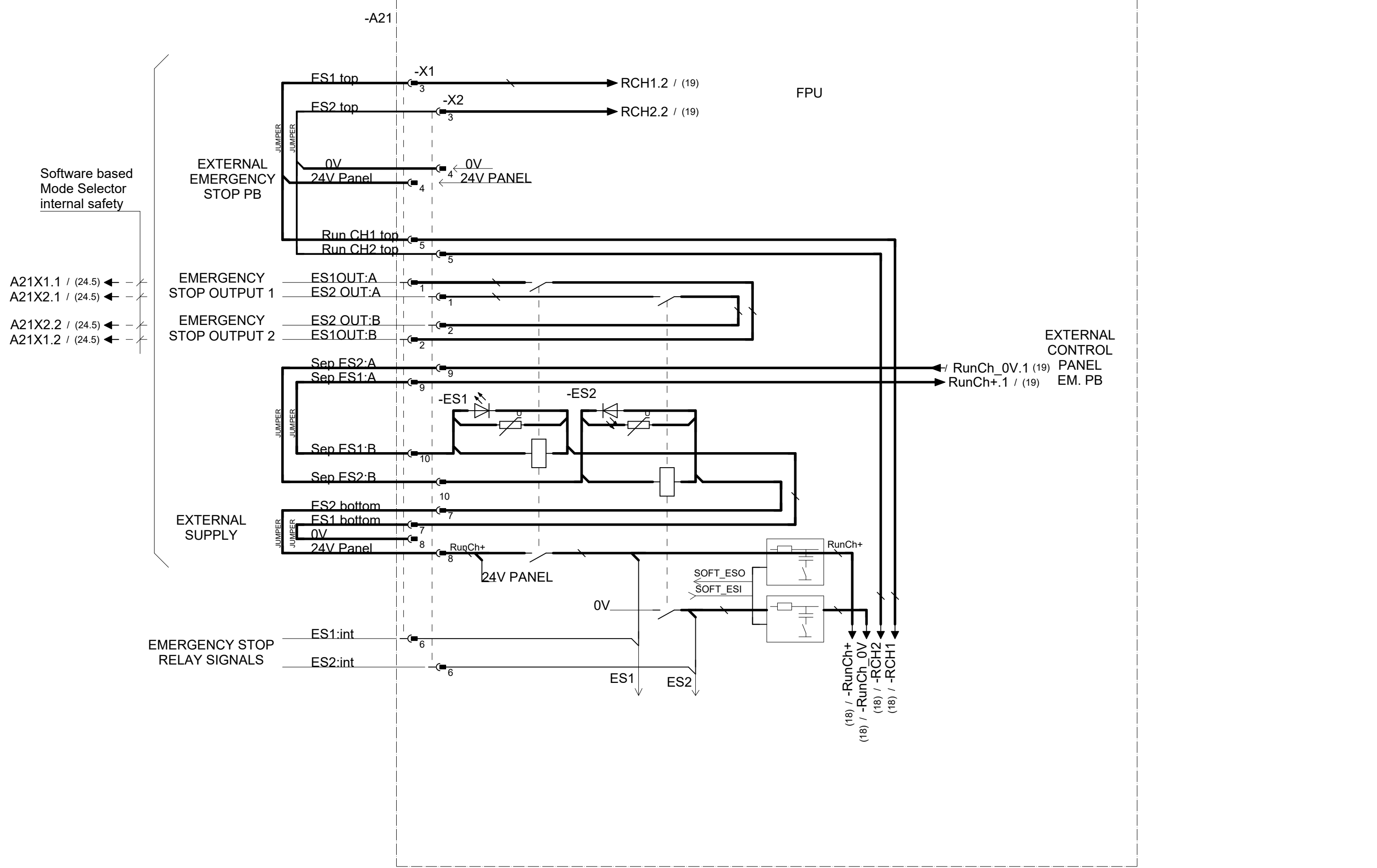
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PANEL BOARD



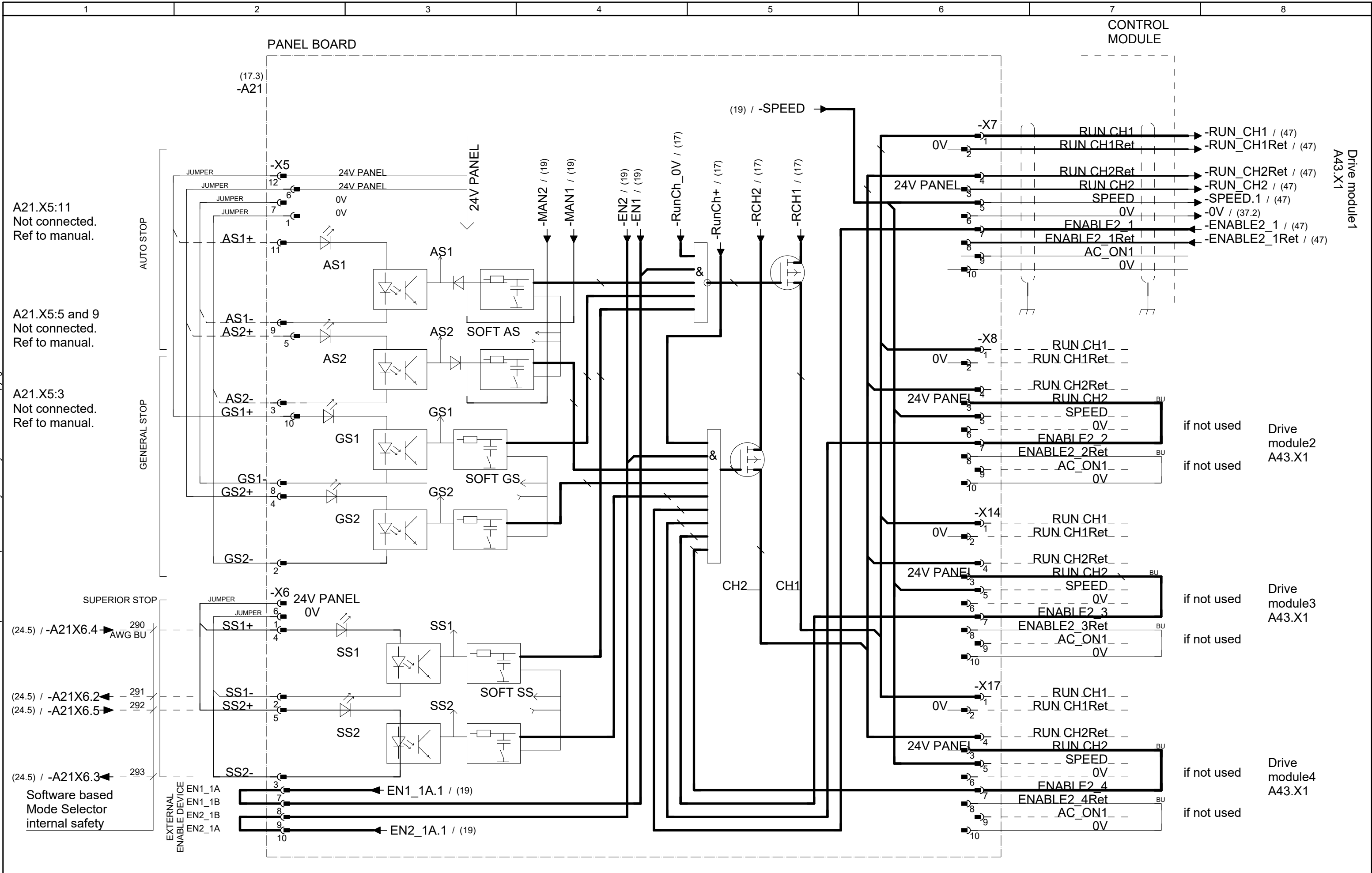
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 RUN CHAIN and PANEL BOARD A21 Sh. 1 of 3

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 RUN CHAIN and PANEL BOARD A21 Sh. 2 of 3

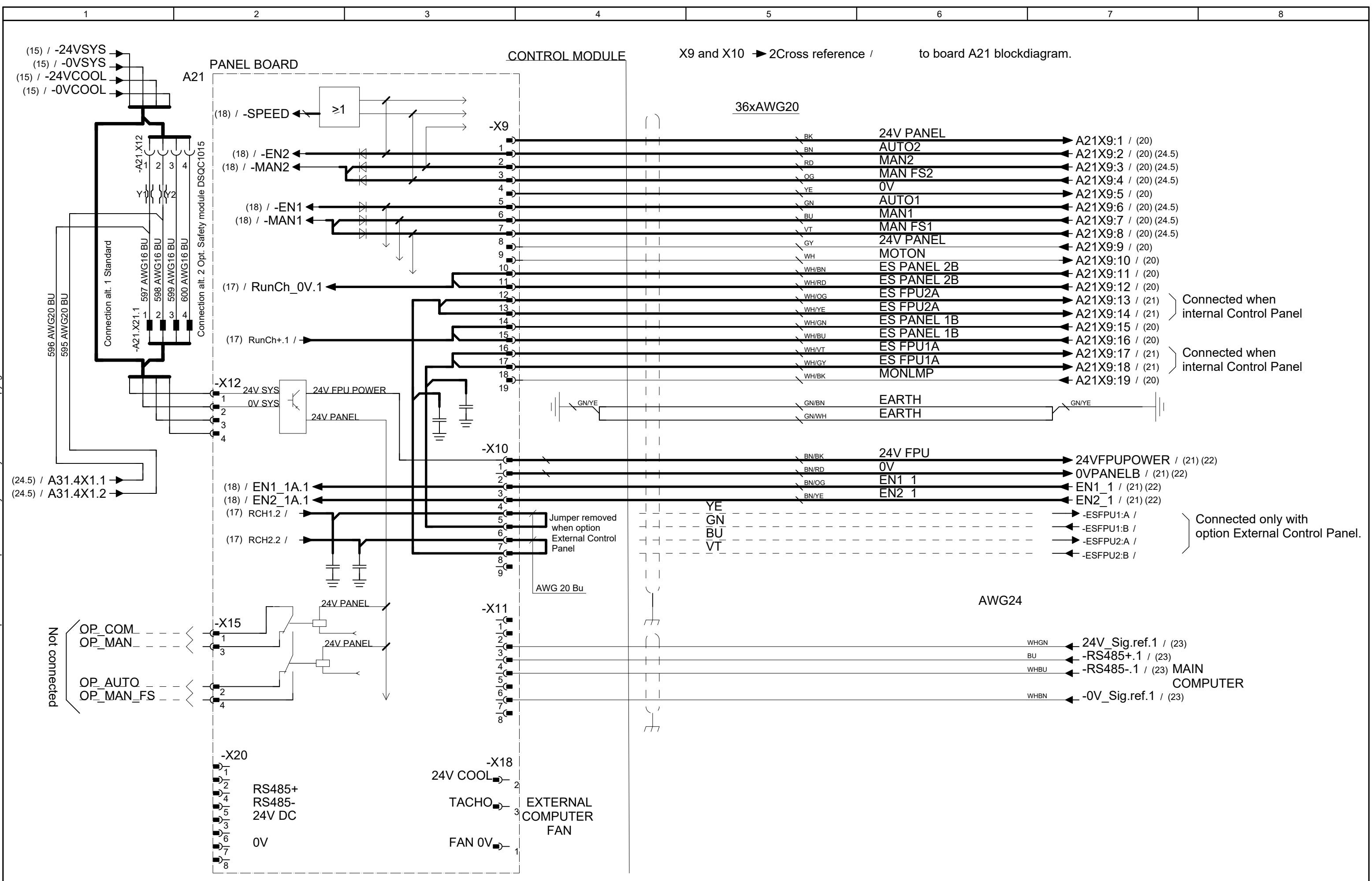
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Page 18
 Next 19
 Total 125



X9 and X10 → 2Cross reference / to board A21 blockdiagram.

Connected when internal Control Panel

Connected when internal Control Panel

Connected only with option External Control Panel.

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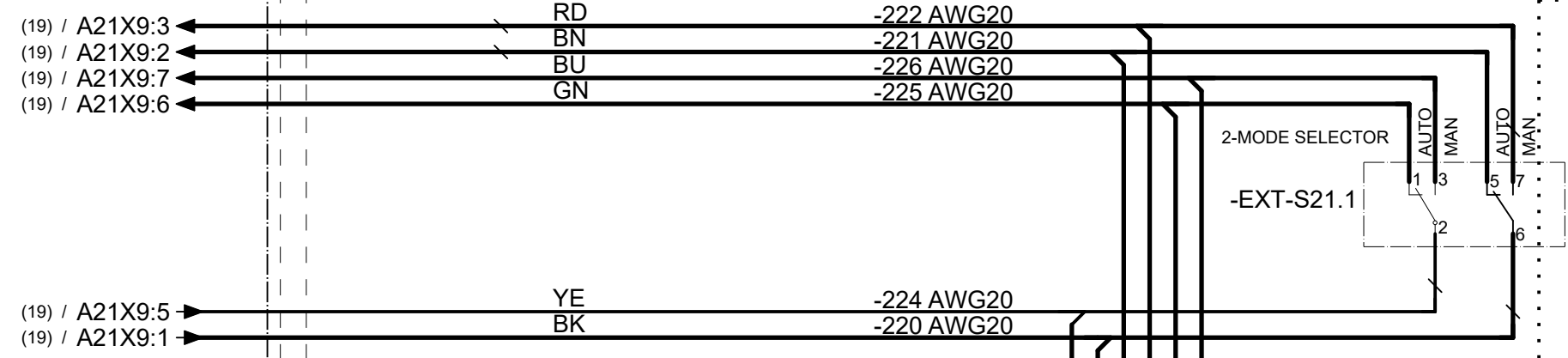
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RUN CHAIN and PANEL BOARD A21 Sh. 3 of 3

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 19 Next 20 Total 125

► 1 Cross reference to EXT S21 / (16.5) (16.5) (16.5)

Ext. Controll Panel Box Sh. 1 of 2
-EXT-S21

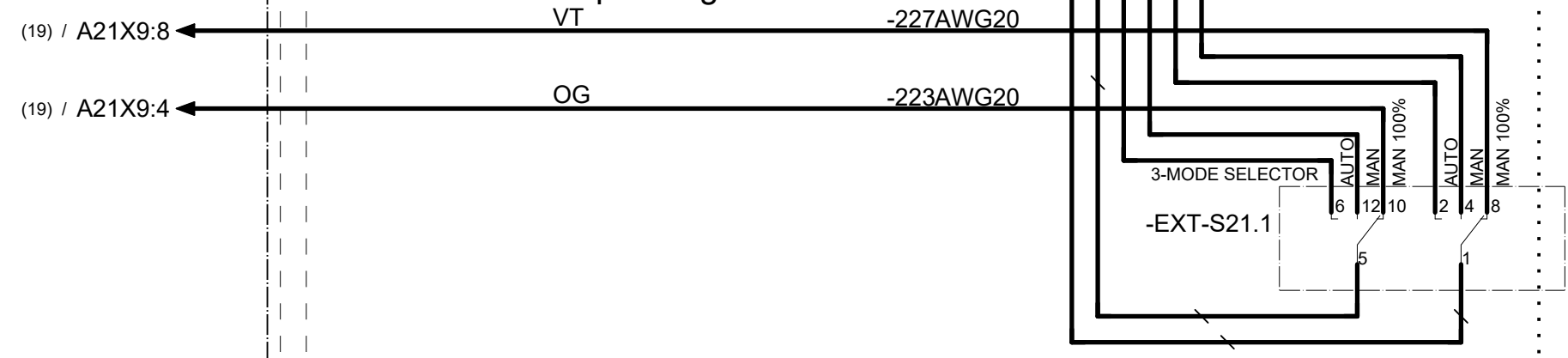
2 Mode selector, Option for Run chain Ext. Operating.
2 and 3 Mode selector is not used with software switch.



Option: Extended 2 Mode Selector see sheet.

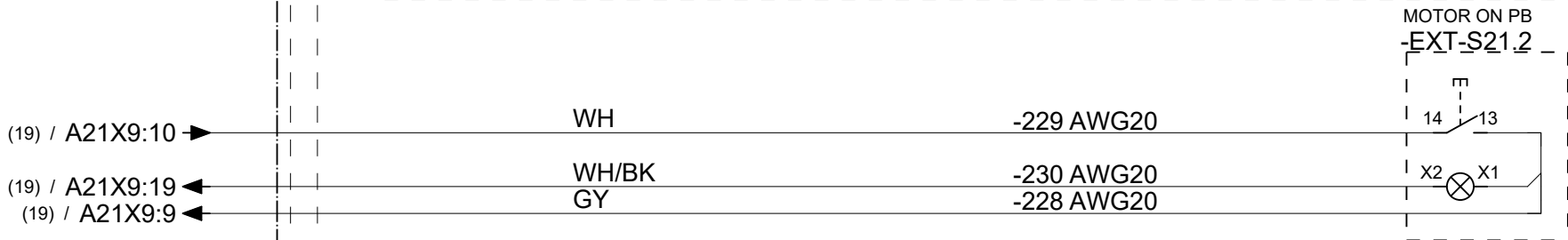
◀ Ext_Extended_2_Mode / (20.1) (20.1)

3 Mode selector is optional for Run chain Operating.

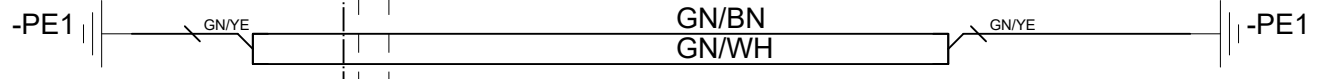
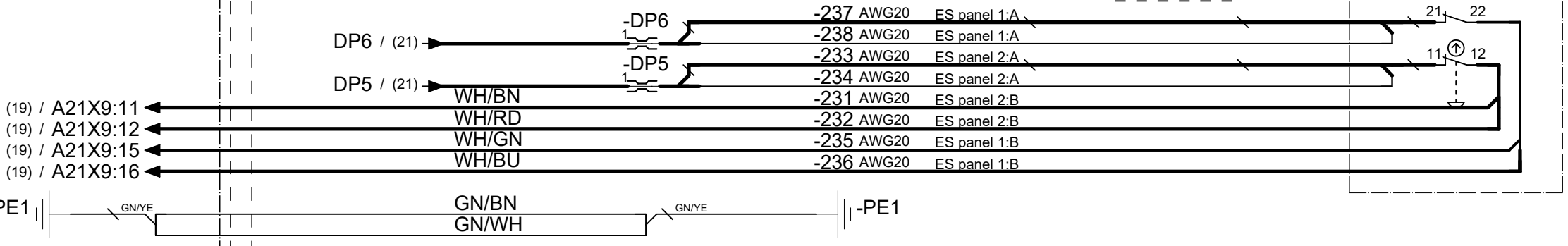


Option: Extended 3 Mode Selector see sheet.

◀ Ext_Extended_3_Mode / (20.1) (20.1)



EMERGENCY PB
-EXT-S21.3



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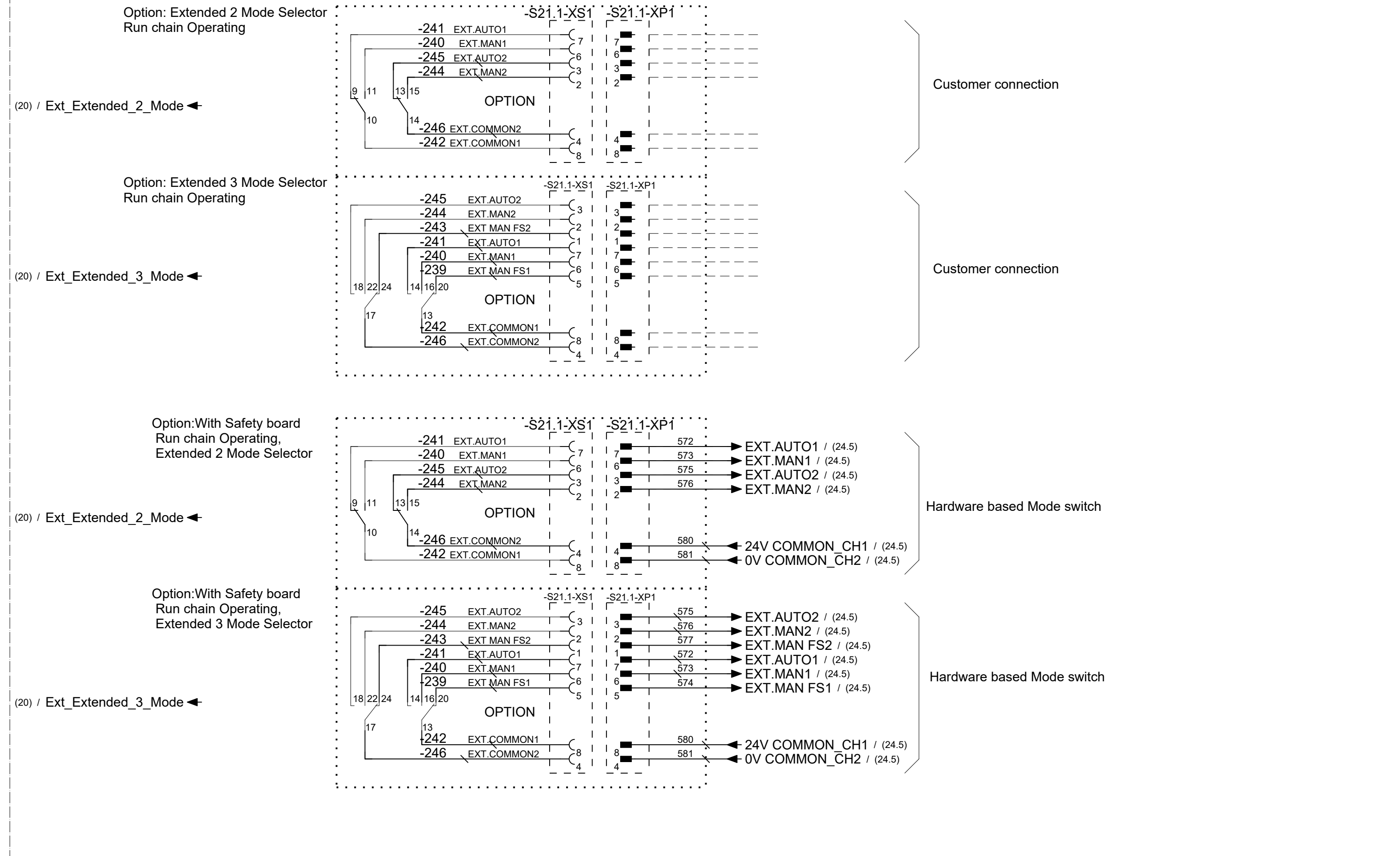
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PMC DESIGN 14 Rel: 23D
RUN CHAIN A21 EXTERNAL CONTROLL PANEL/BOX,
2 & 3 MODE SELECTOR, EM.STOP

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Rev. Ind 14
Page 20
Next 20.1
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EXTERNAL CONTROL PANEL/BOX Sh.2

-EXT-S21



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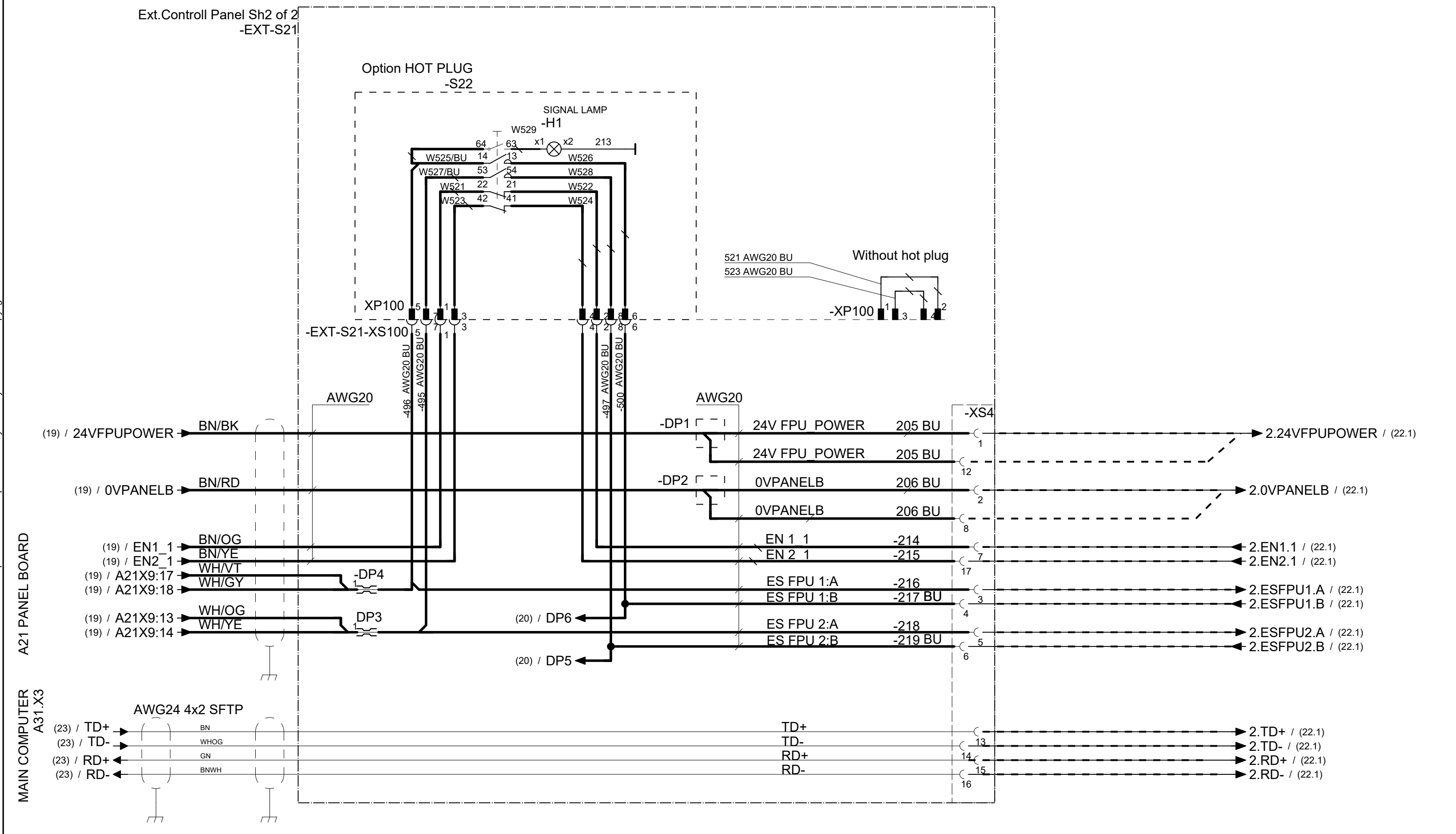
PMC DESIGN 14 Rel: 23D
EXTERNAL CONTROL PANEL/BOX RUN CHAIN
EXT.S21, 2 & 3 MODE SELECTOR

Status:
Approved

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Location: +
Sublocation: +

Document no. 3HAC026871-020 Rev. Ind 14 Page 20.1
Next 21
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► 8 Cross reference to Ext Hot Plug S.22 / (16.5)
 Option: Hot plug from Rel.11.1
 ► 7 Cross reference to DP.3-4 / (16.5)



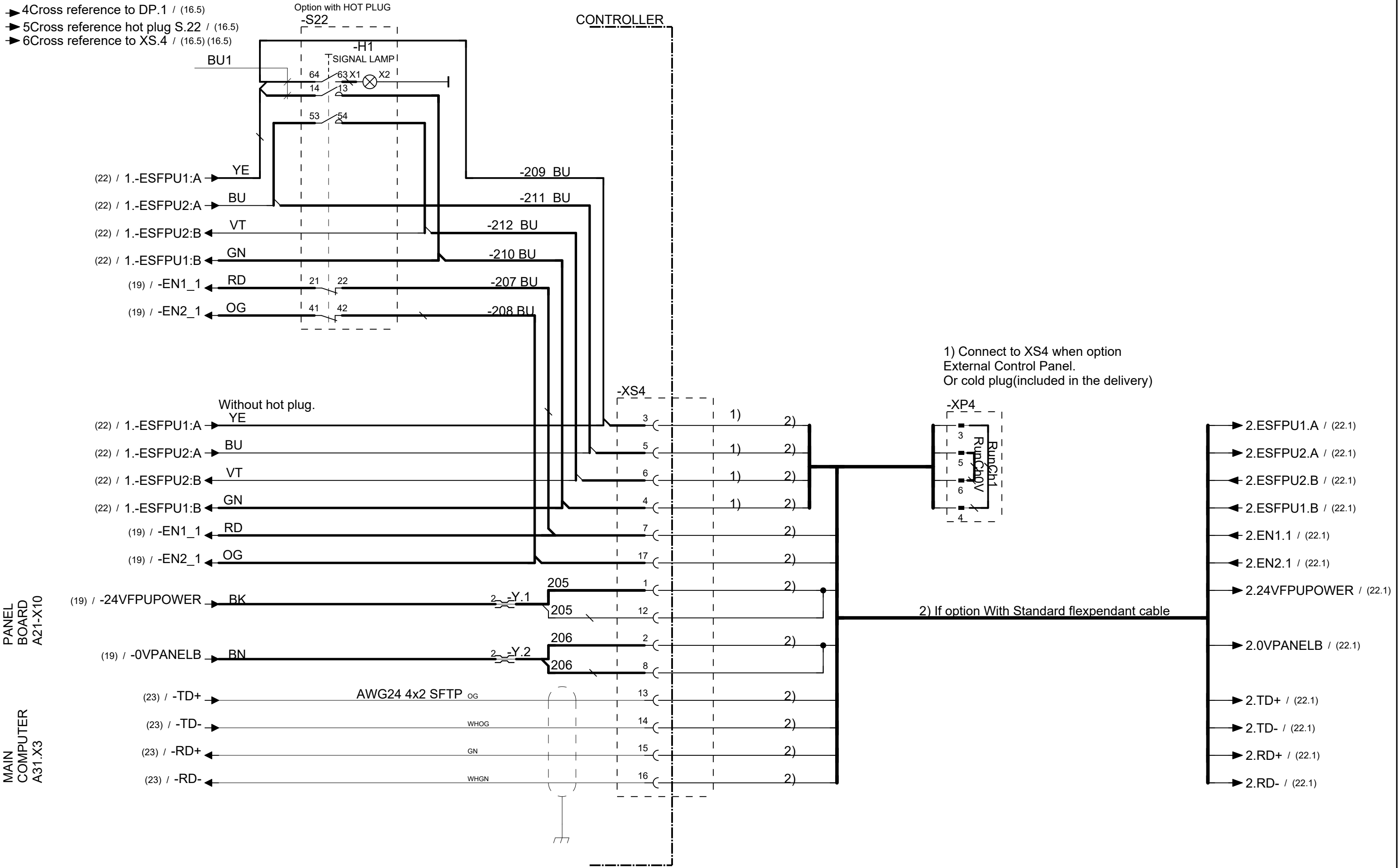
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 RUN CHAIN EXT A21 OPERATING WITH
 OPT: HOT PLUG rel 11.1

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 Sublocation: +
 Document no. 3HAC026871-020
 Rev. Ind 14
 Page 21
 Next 22
 Total 125

- 4 Cross reference to DP.1 / (16.5)
- 5 Cross reference hot plug S.22 / (16.5)
- 6 Cross reference to XS.4 / (16.5) (16.5)



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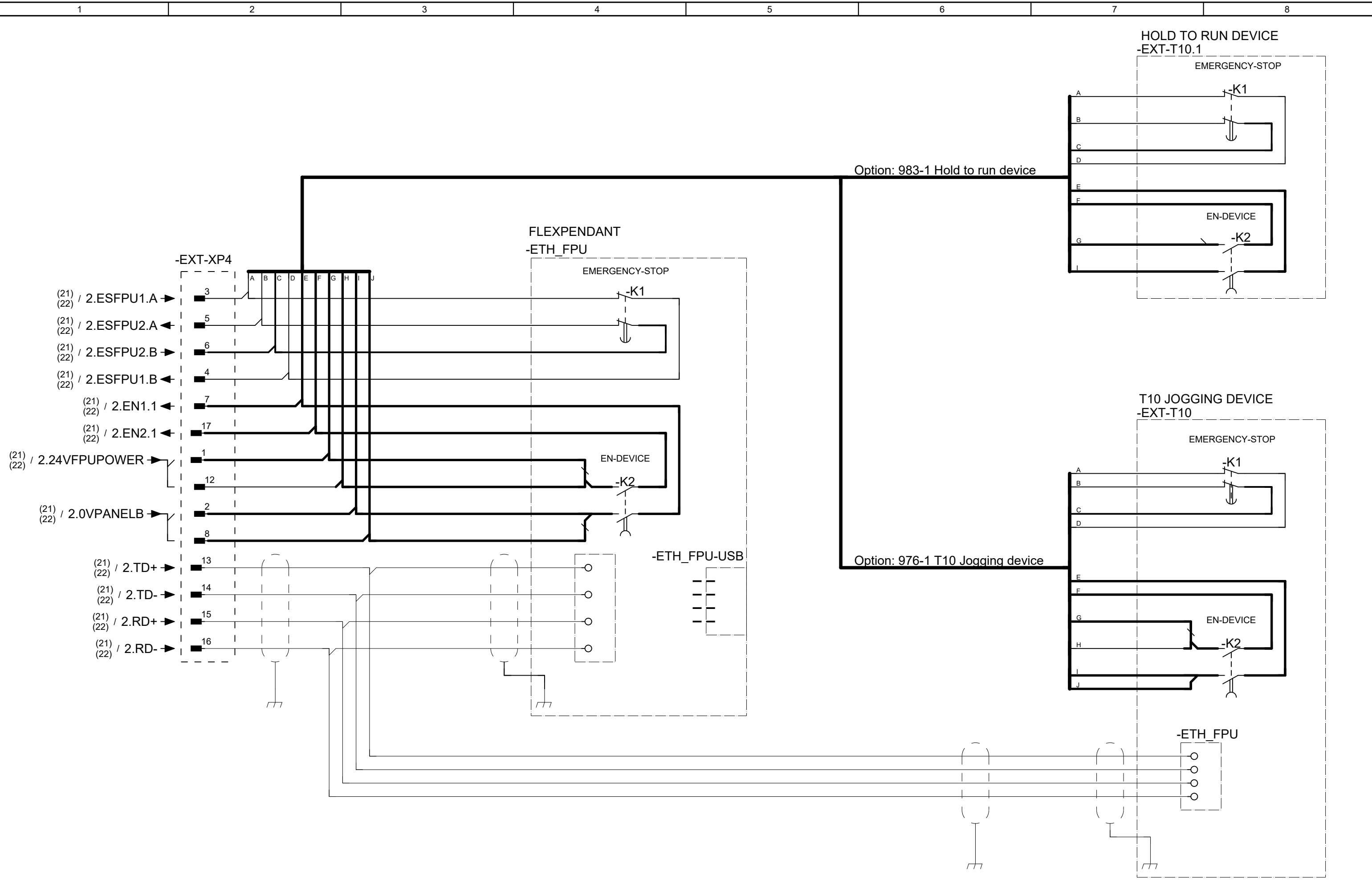
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RA/RDP FPU, FLEXPENDANT and option HOT PLUG

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	Page 22 Next 22.1 Total 125

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PMC DESIGN 14 Rel: 23D
FPU, FLEXPENDANT and Opt. HOLD TO RUN DEVICE
T10 JOGGING DEVICE

Status:
Approved

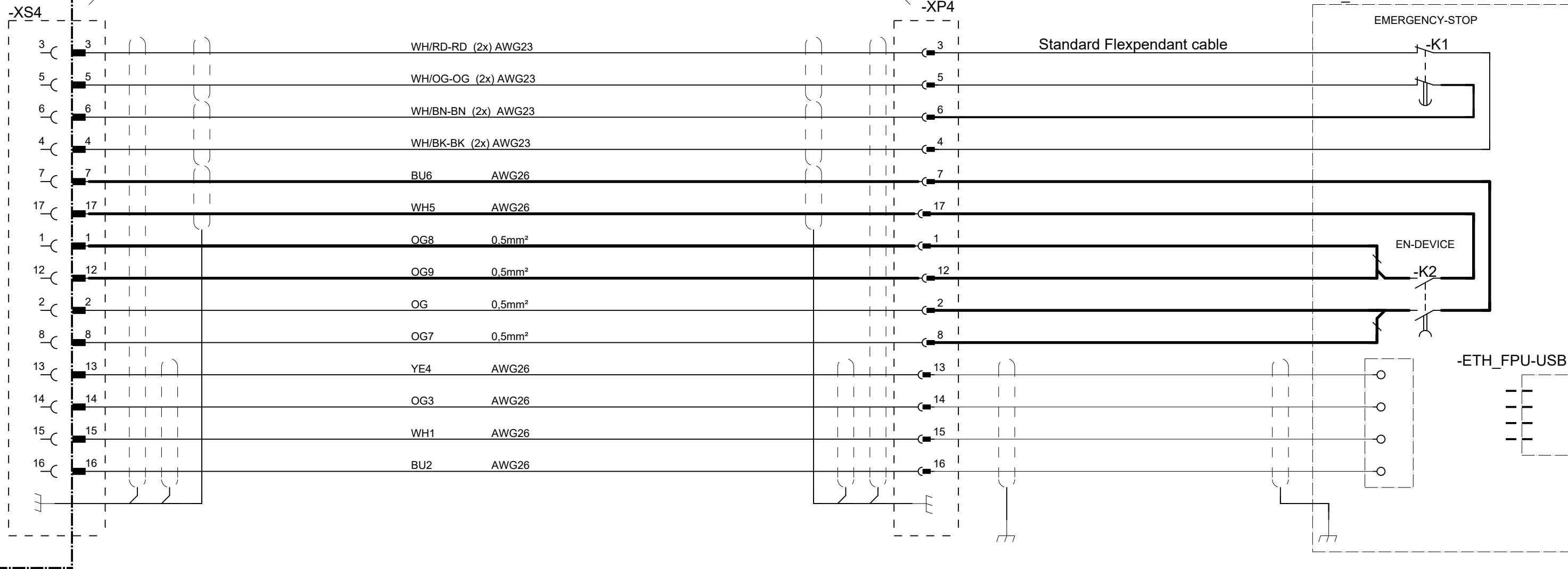
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Document no. Rev. Ind Page 22.1
3HAC026871-020 14 Next 22.2
Total 125

CONTROLLER

Opt 784 Extended flexpendant cable
15m, 22m, 30m

FLEXPENDANT
-ETH_FPU



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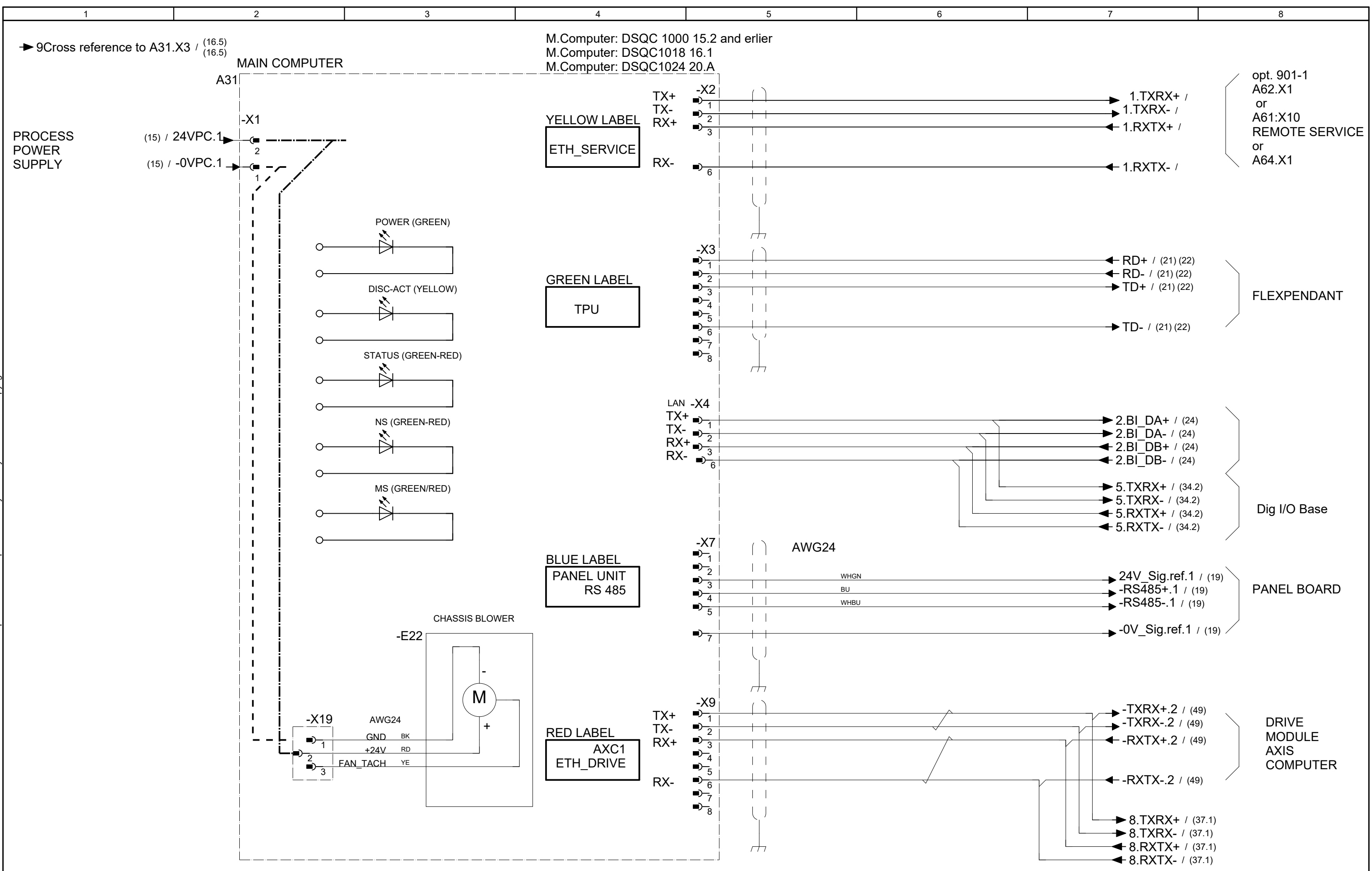
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FPU, Extended FLEXPENDANT cable 15 - 30 m

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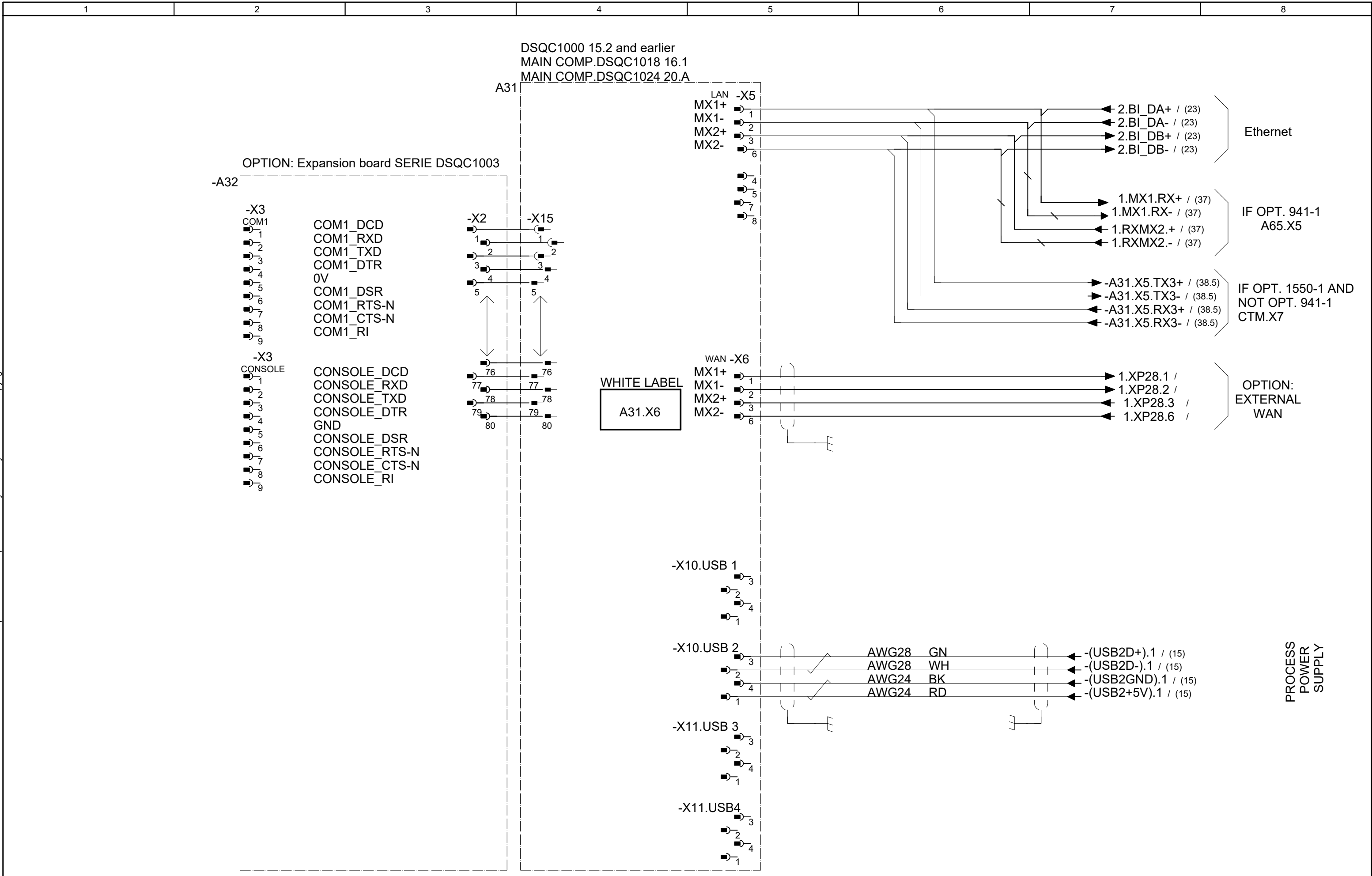
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ABB Lab/Office: PMC DESIGN 14 Rel: 23D
 RA/RDP MAIN COMPUTER DSQC1000/1018/1024

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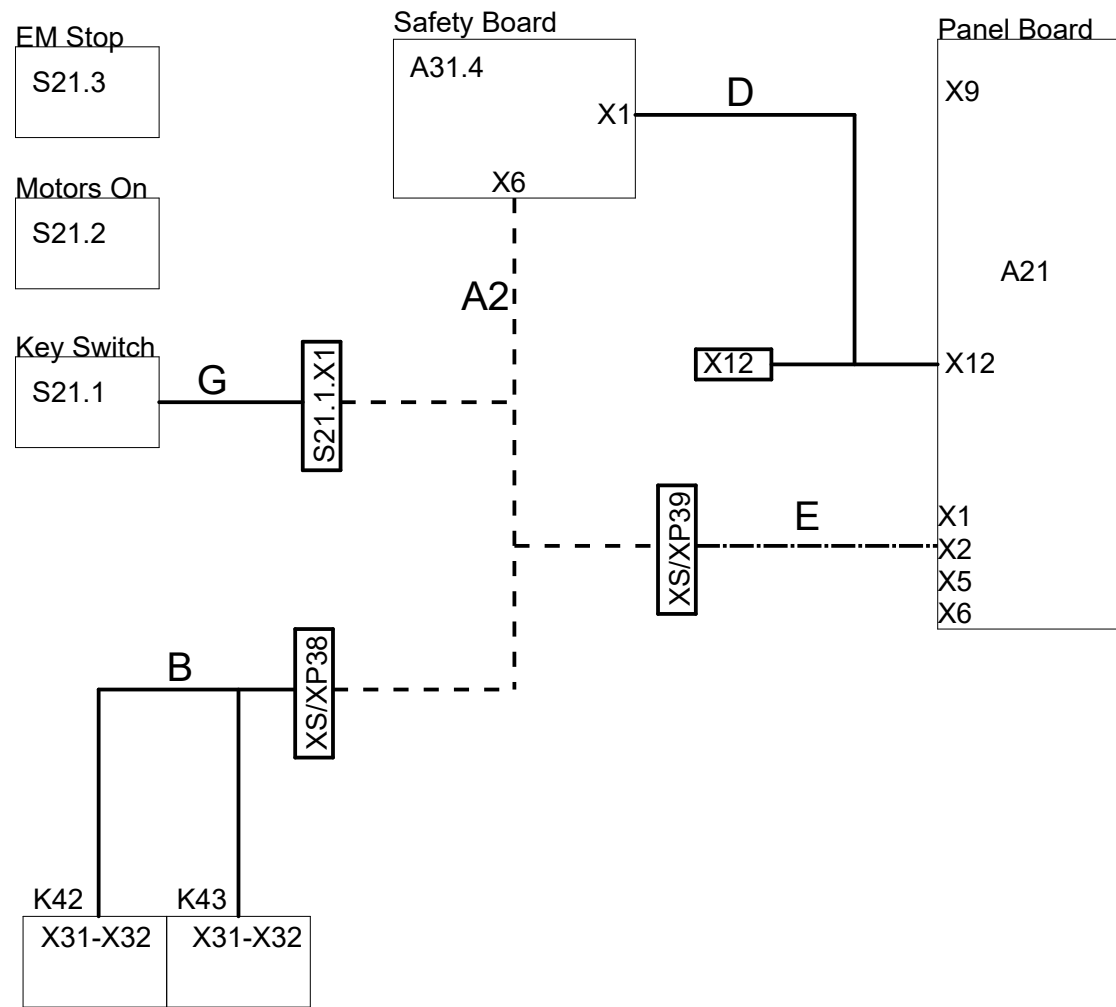
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 MAIN COMPUTER DSQC1000/1018/1024

Status: Approved
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 Location: +
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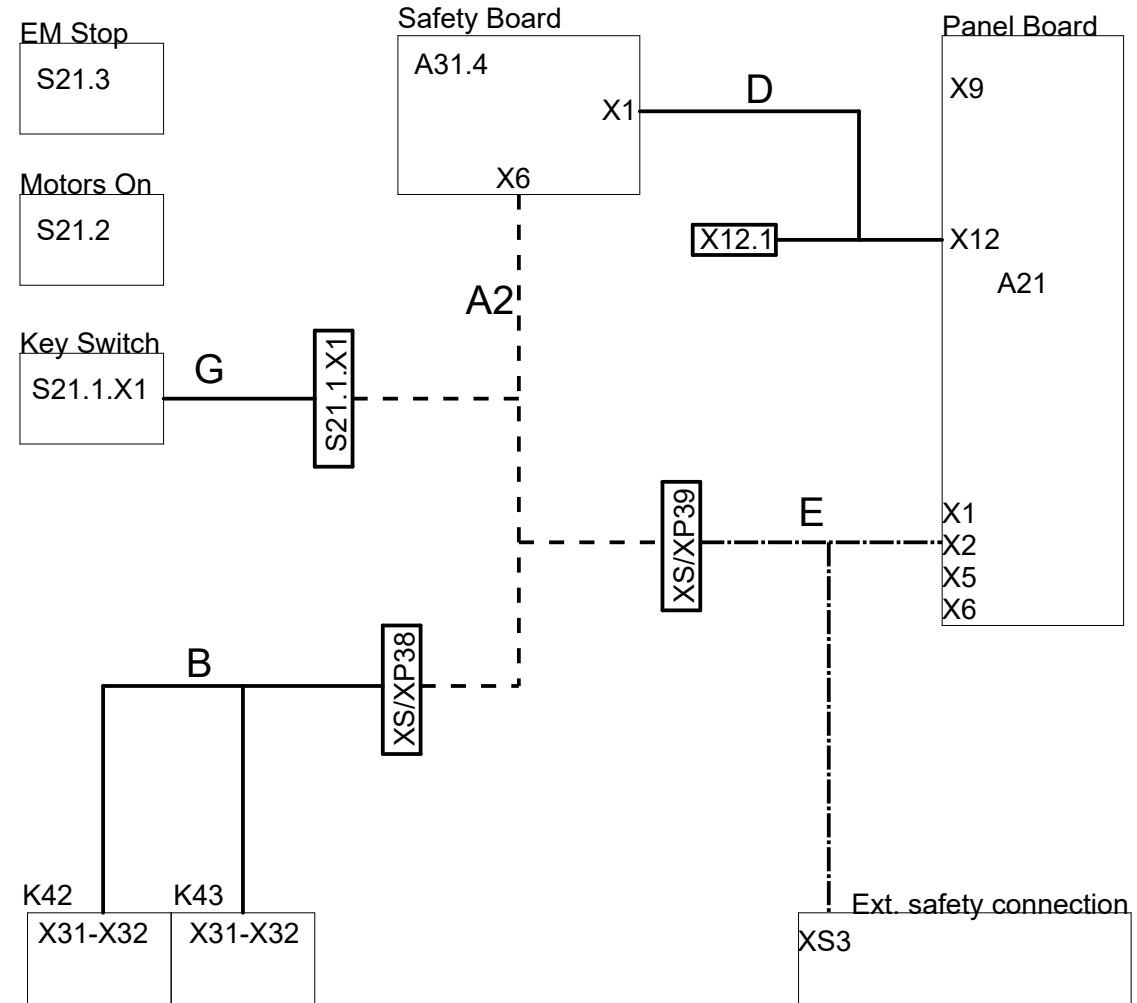
Options:
 996-1 Safety Module. _____
 AND
 735-1 Add. Contacts, 3 modes OR - - - - -
 735-2 Add. Contacts, 2 modes
 AND
 731-1 Safety internal connection. - - - - -

Options:
 996-1 Safety Module. _____
 AND
 735-1 Add. Contacts, 3 modes OR - - - - -
 735-2 Add. Contacts, 2 modes
 AND
 731-2 Safety external connection. - - - - -

Internal-Hardware Safety switch conn.



External-Hardware Safety switch conn.



- A = Re-designed Safety harness for Key-less 3HAC056648-001
- A2 = Safety harness for hard Key switch 3HAC057150-001
- B = Main Contactor supervision harness. 3HAC055642-001
- C= Emergency Stop harness. 3HAC056527-001
- D= +24V and 0V supply. 3HAC055633-001
- E = Internal Safety Conn. harness. New design. 3HAC056638-001
- F = External Safety Conn. New design. 3HAC056622-001
- G = Extended Key switch harness. 3HAC023476-001

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PMC DESIGN 14 Rel: 23D
 SAFETY BOARD A31.4 HARDWARE SWITCH

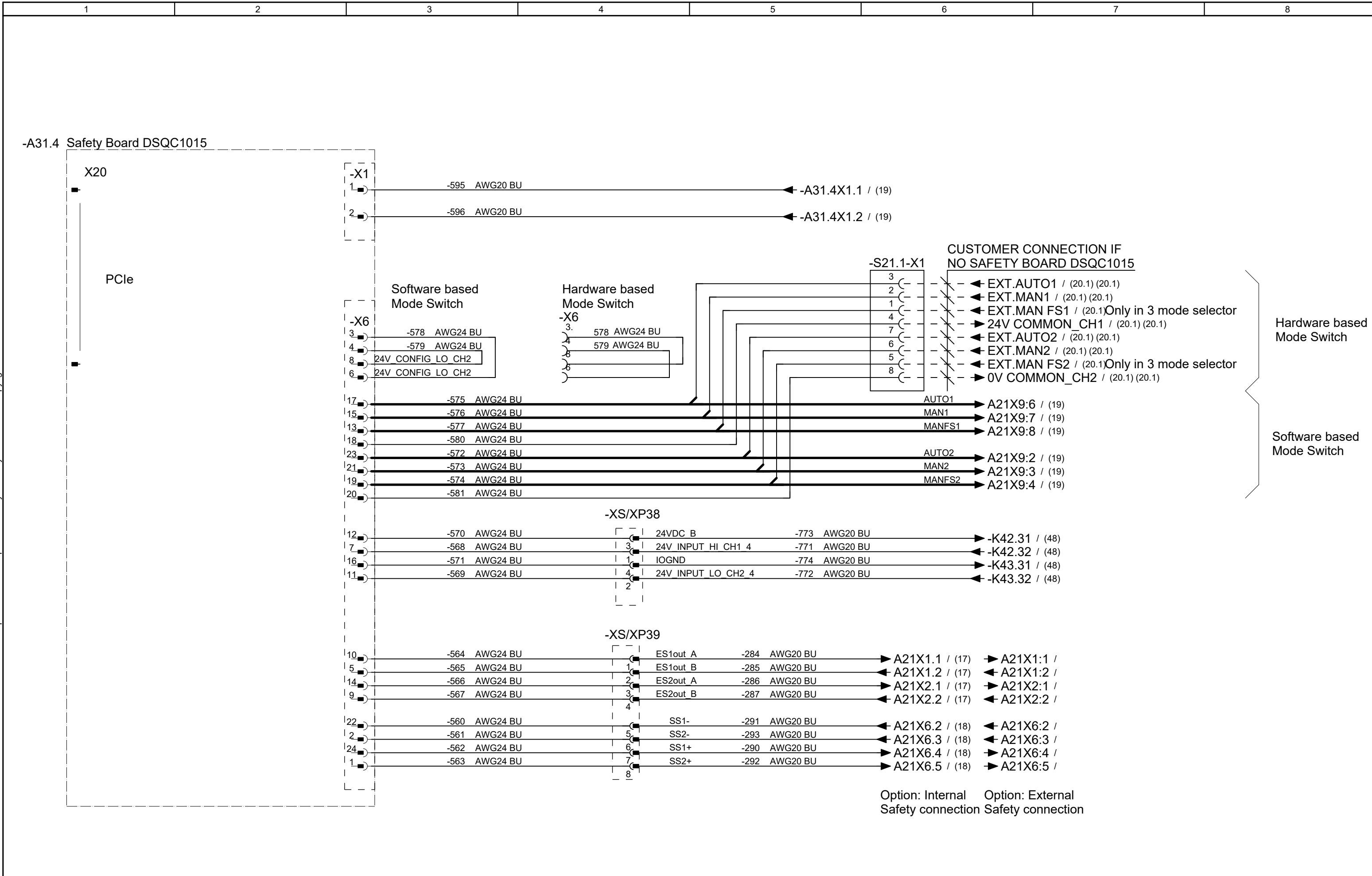
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 14 Next 24.4
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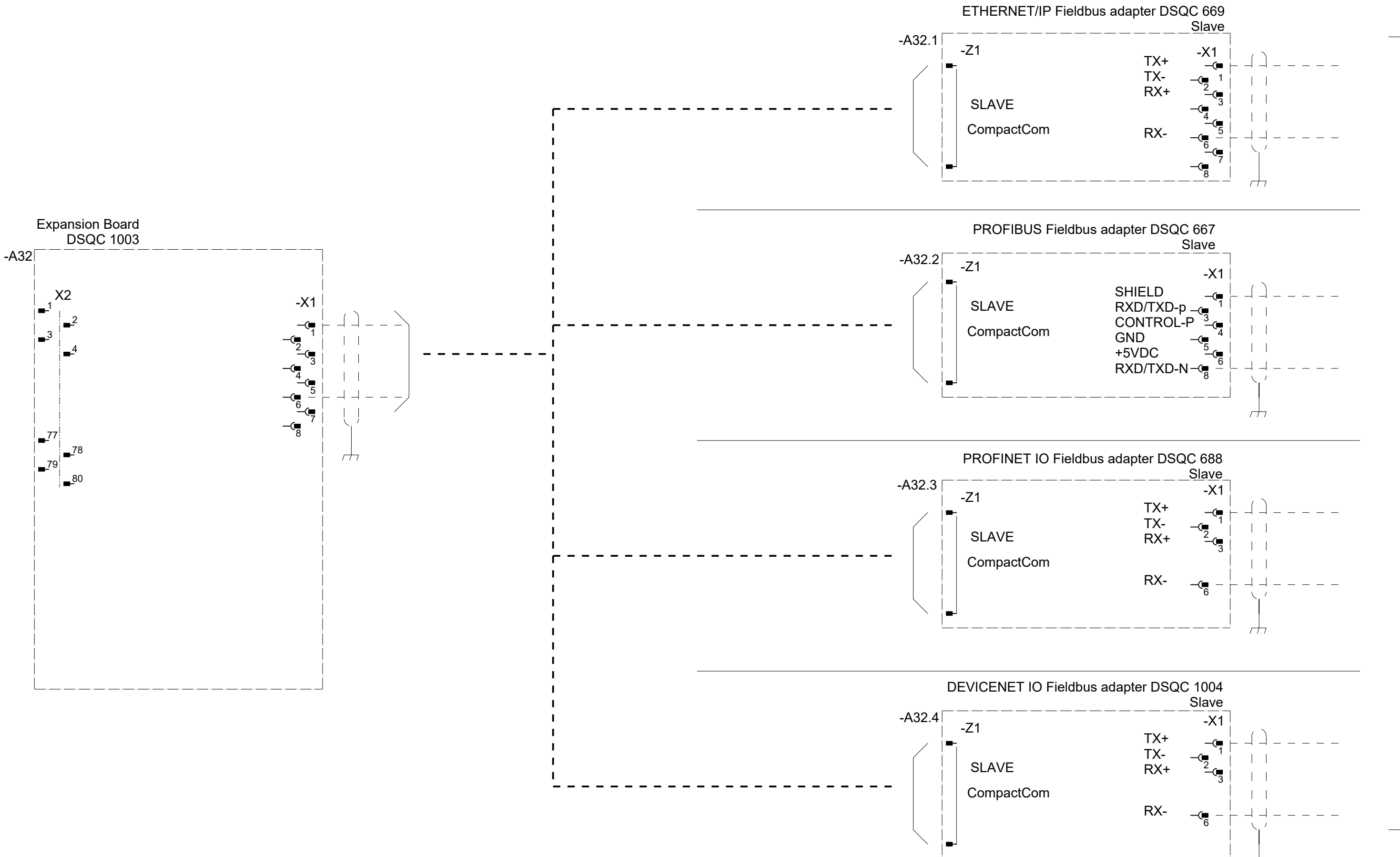
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			RA/RDP	SAFETY BOARD A31.4 DSQC1015	Approved	Location: +
			Hardware and Software based Mode Switch		Sublocation: +	
Prepared by, date: A Hägglund	Approved by, date: S Hällgren	2023-10-30			Document no.	Rev. Ind
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						Page 24.5
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OPTION & HARNESS TO CUSTOMER I/O

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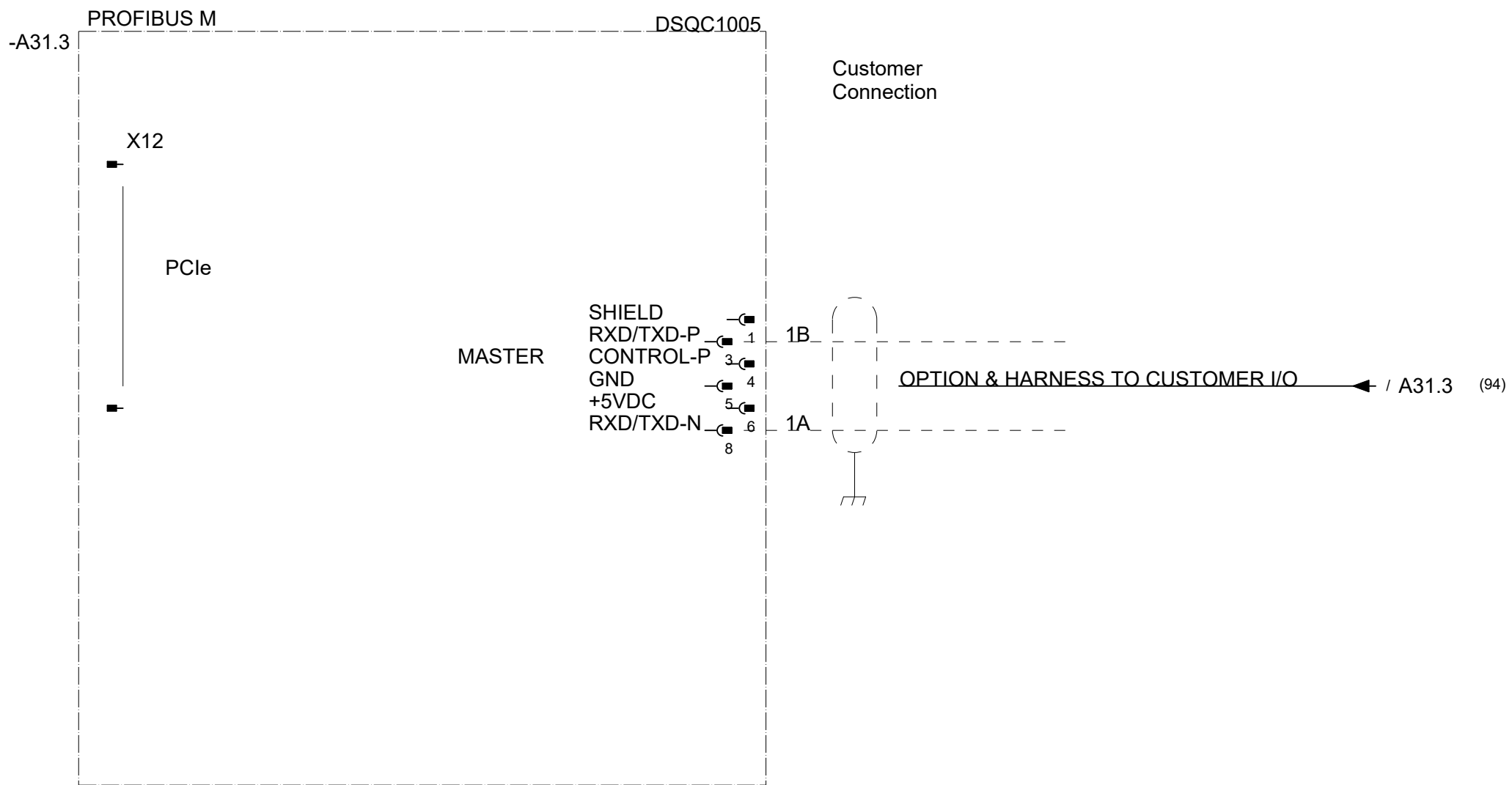
Lab/Office:
RA/RDP

PMC DESIGN 14 Rel: 23D
 FIELDBUS ADAPTER:
 ETHERNET/IP, PROFIBUS and
 PROFINET IO

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PROFIBUS DP M

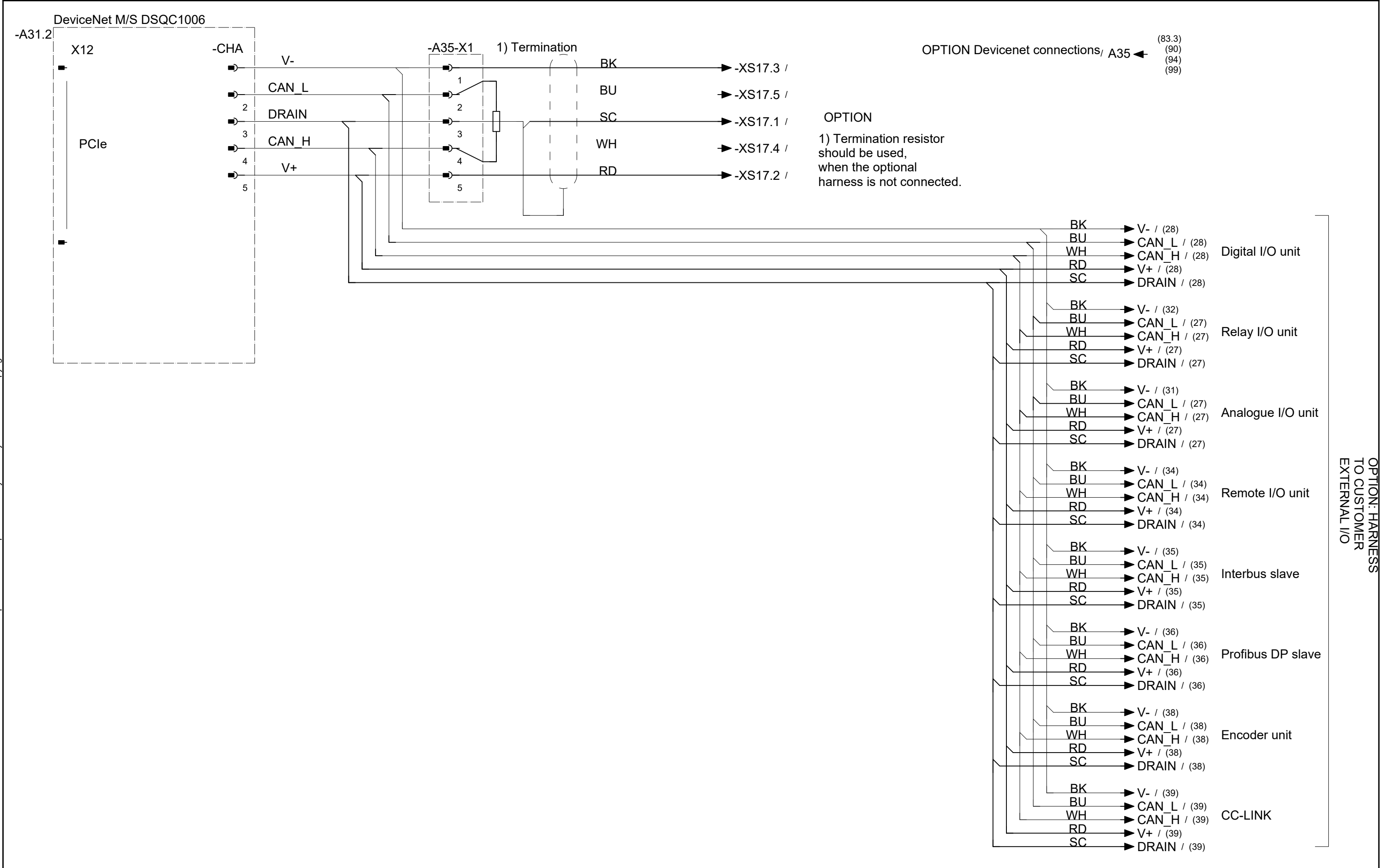
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Page 26
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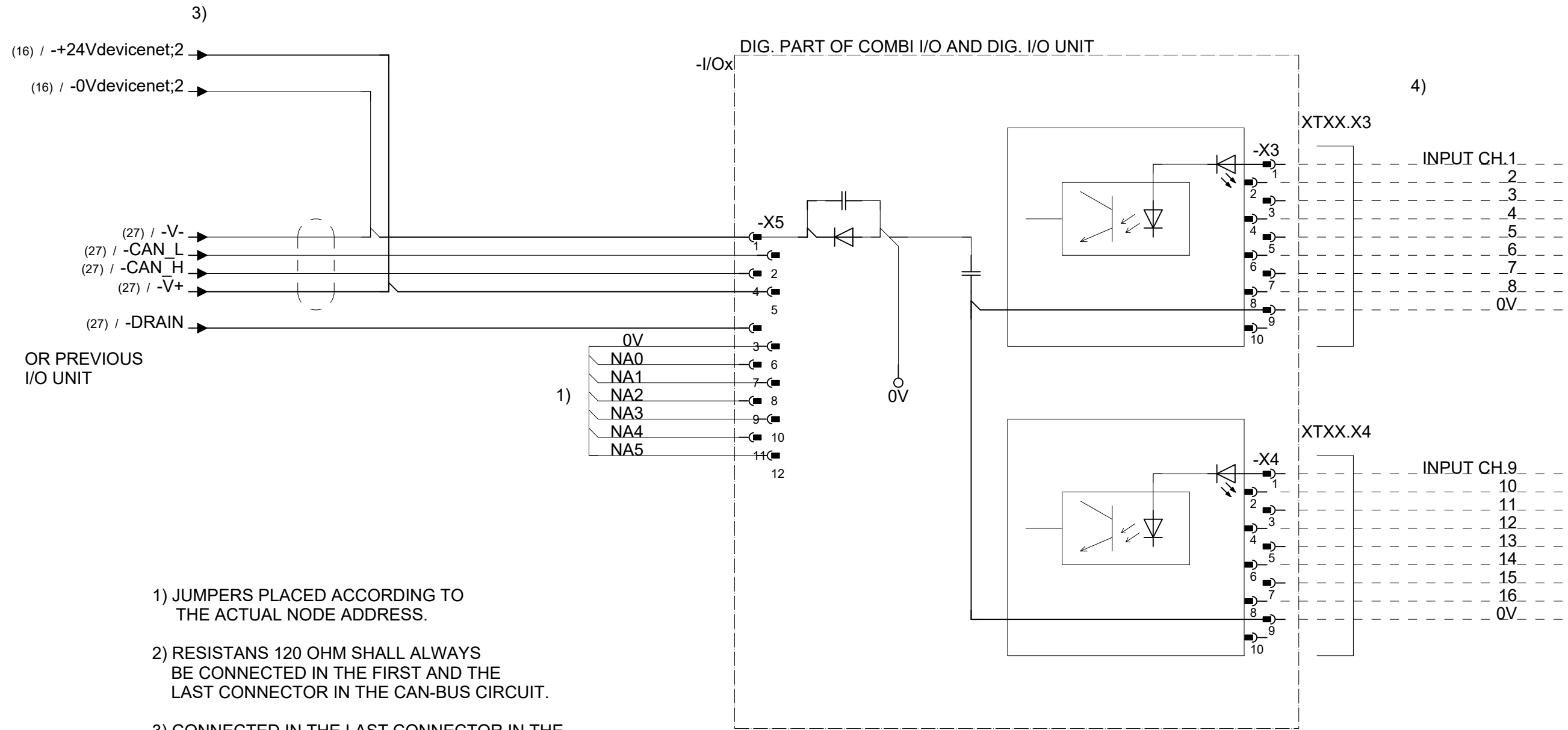


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- 1) JUMPERS PLACED ACCORDING TO THE ACTUAL NODE ADDRESS.
- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 4) FOR COMBI I/O DSQC 651, 8 INPUT, NO X4.
FOR DIGITAL I/O DSQC 652, 16 INPUT, X3 AND X4.



Lab/Office:
RA/RDP

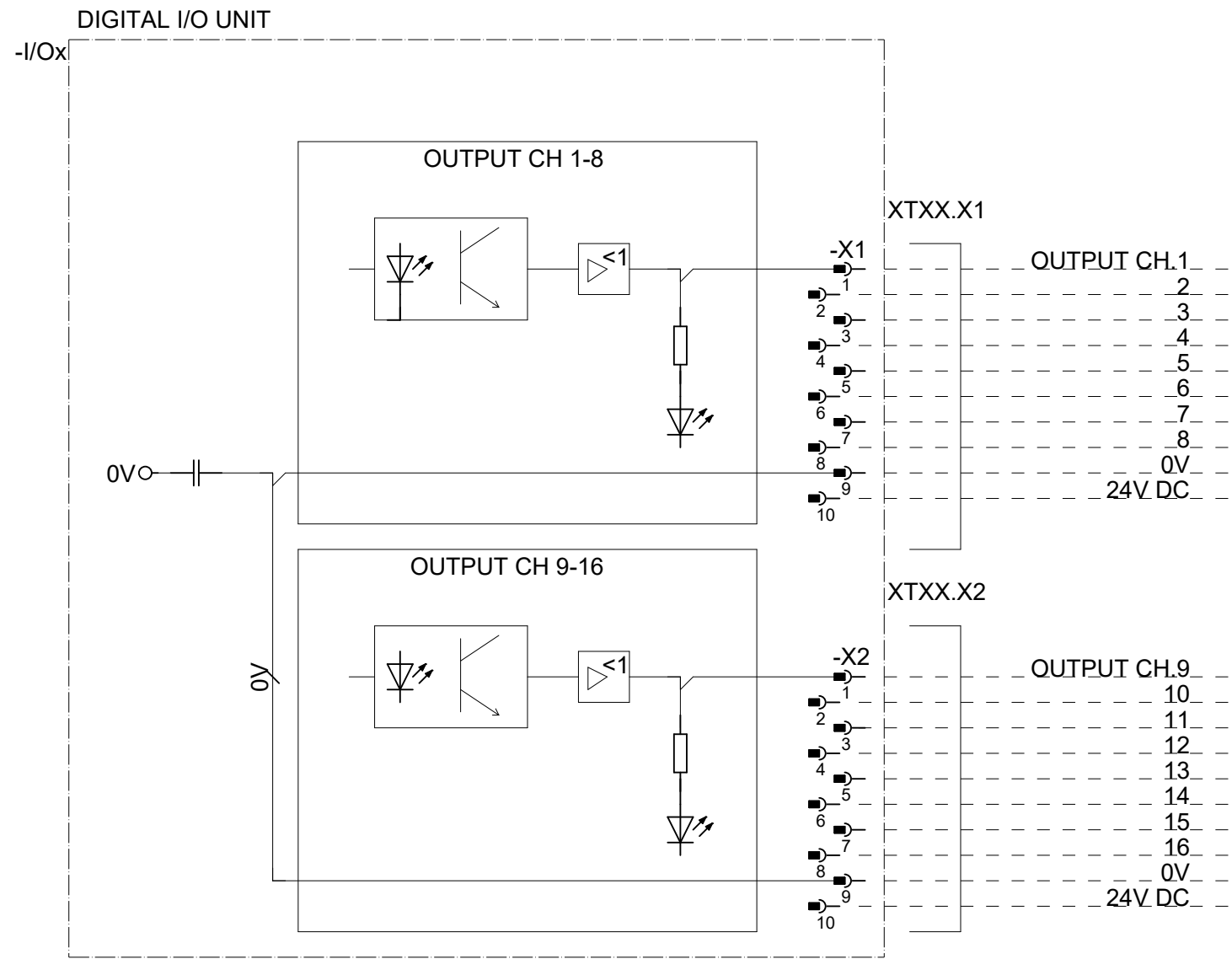
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DIGITAL PART OF COMBI I/O AND
DIGITAL I/O UNIT

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Location: +
Sublocation: +

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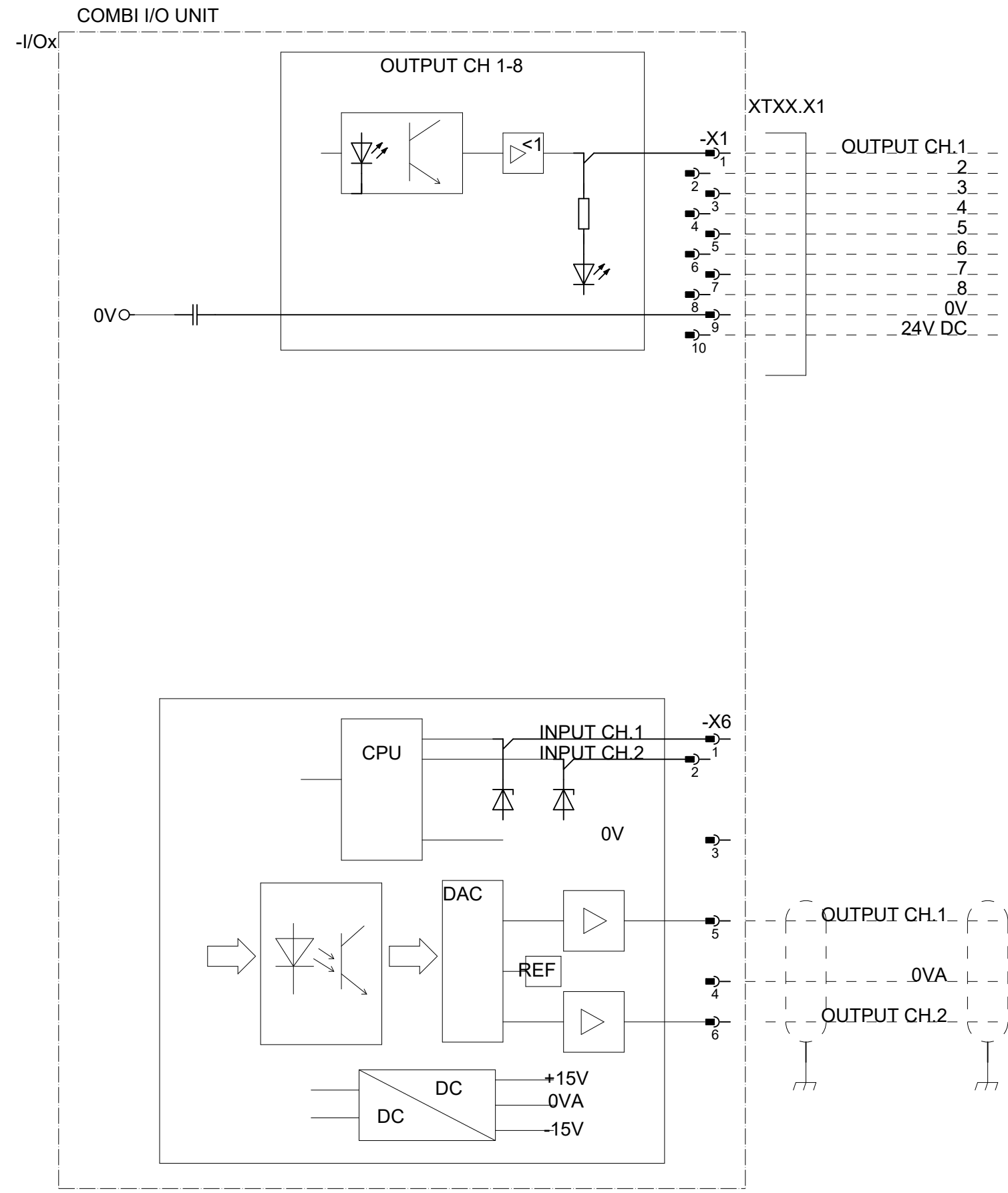
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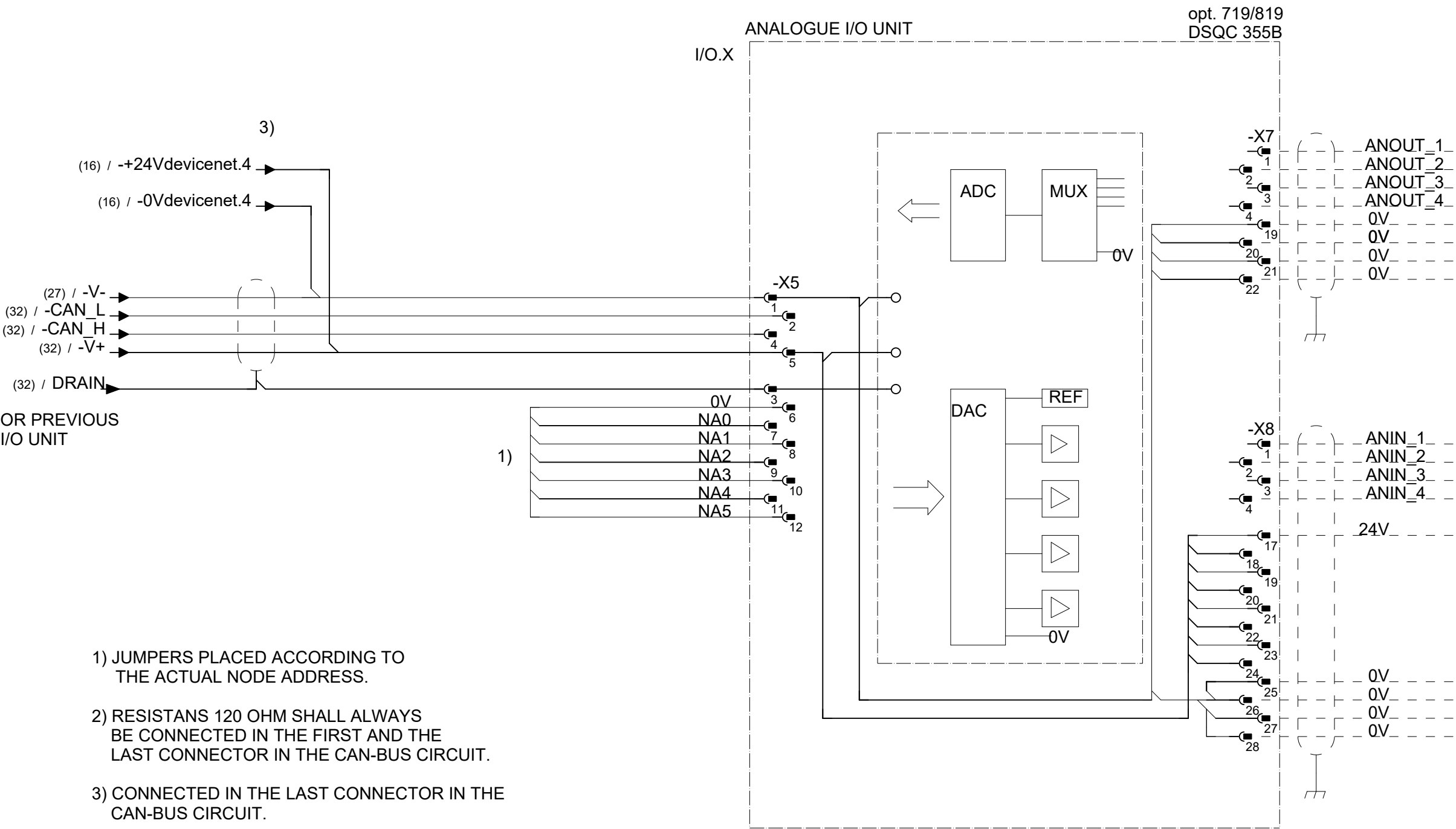
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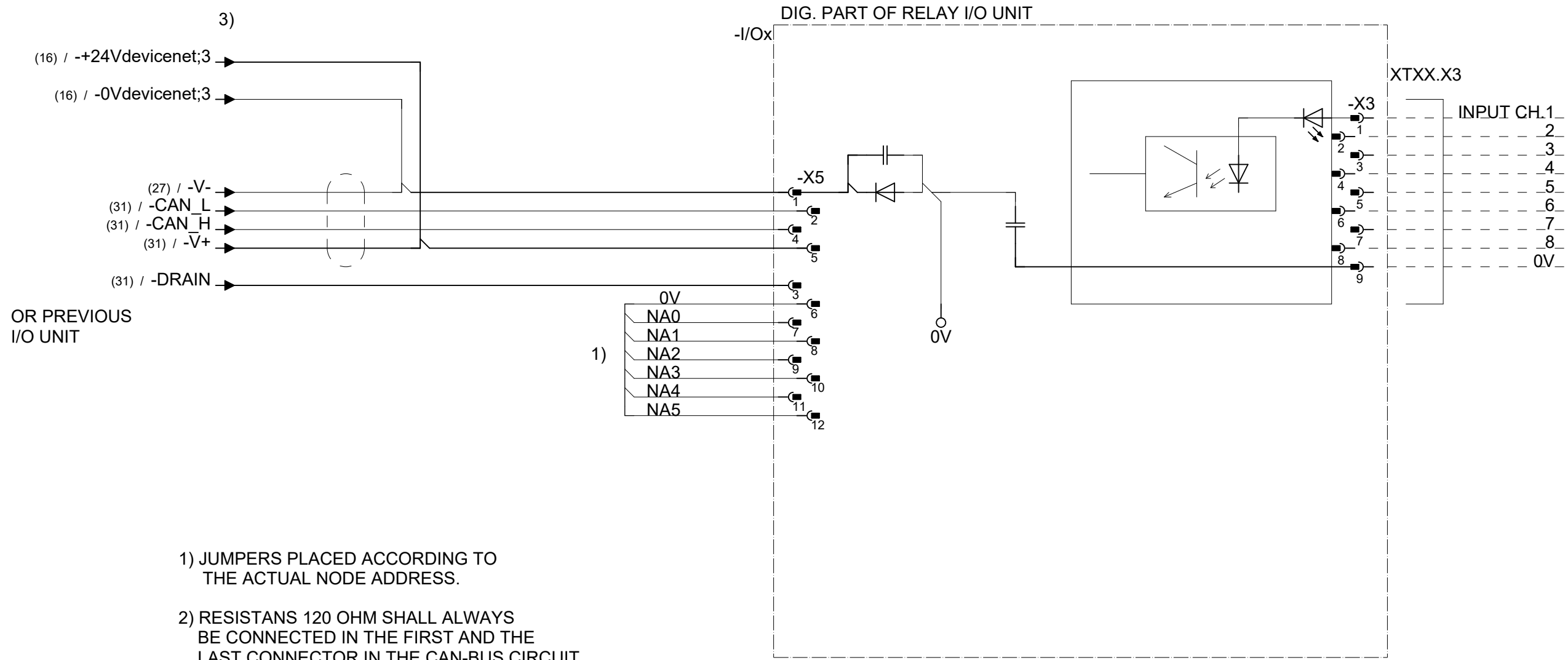
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PMC DESIGN 14 Rel: 23D
 COMBI I/O UNIT

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OR PREVIOUS I/O UNIT

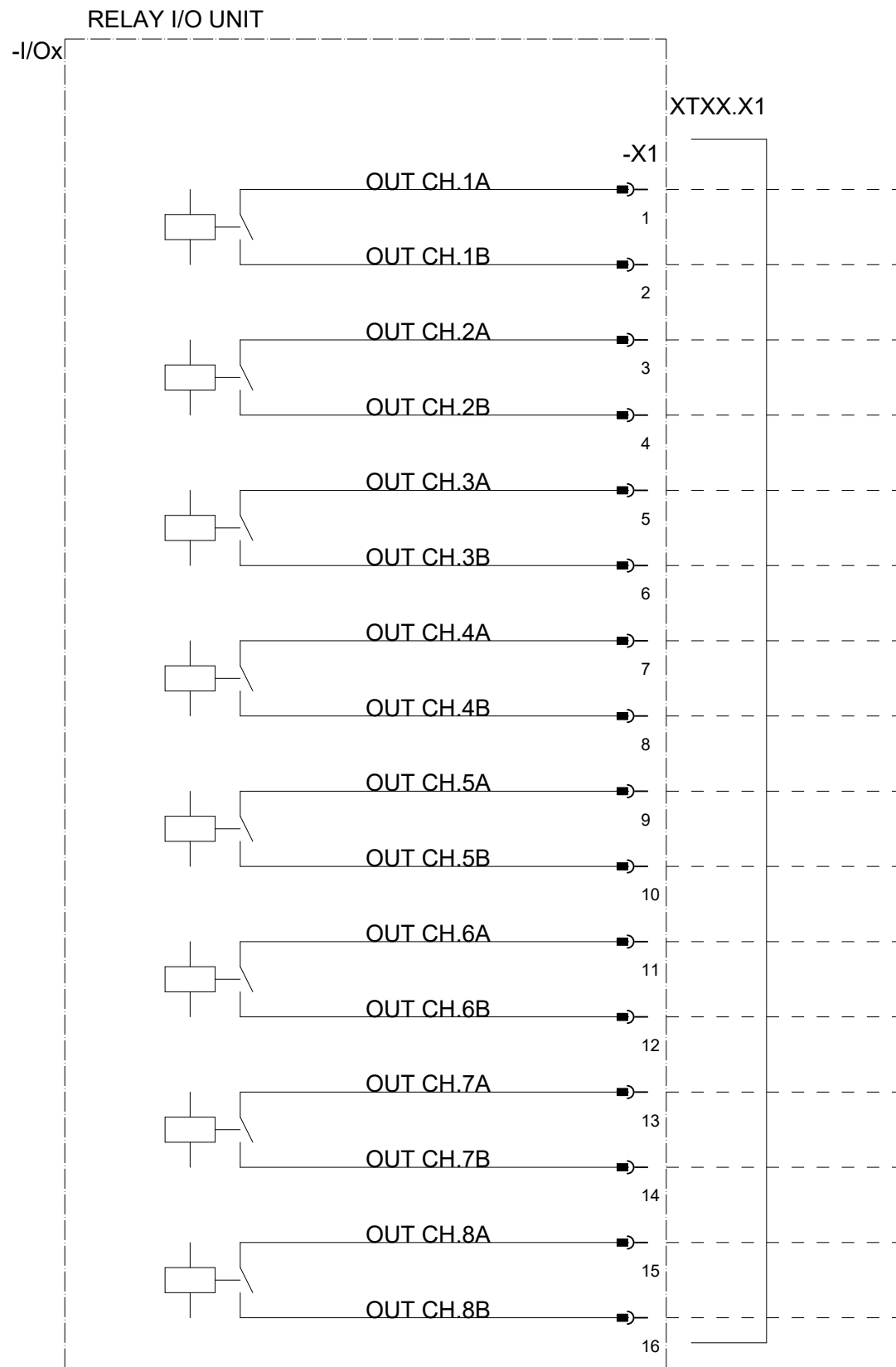
- 1) JUMPERS PLACED ACCORDING TO THE ACTUAL NODE ADDRESS.
- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.



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RELAY I/O UNIT

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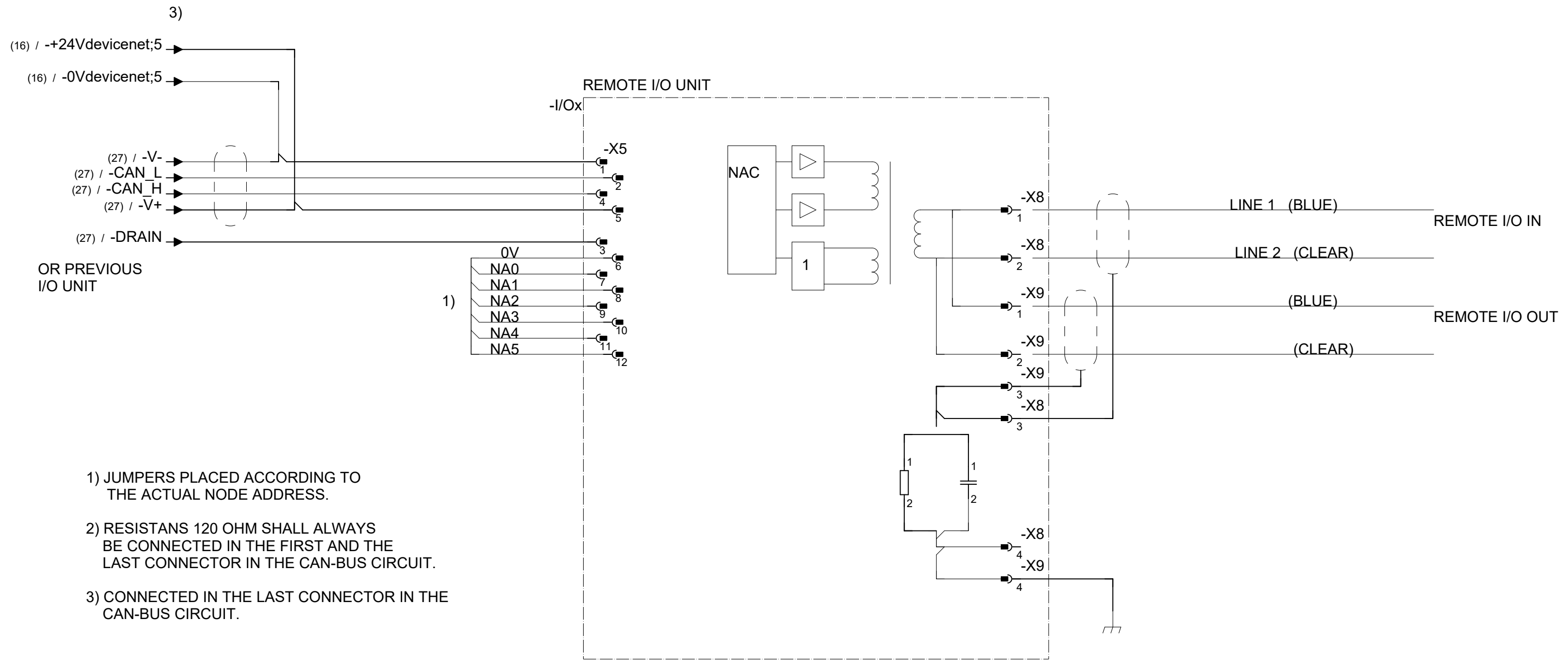
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14

Page 33
Next 34
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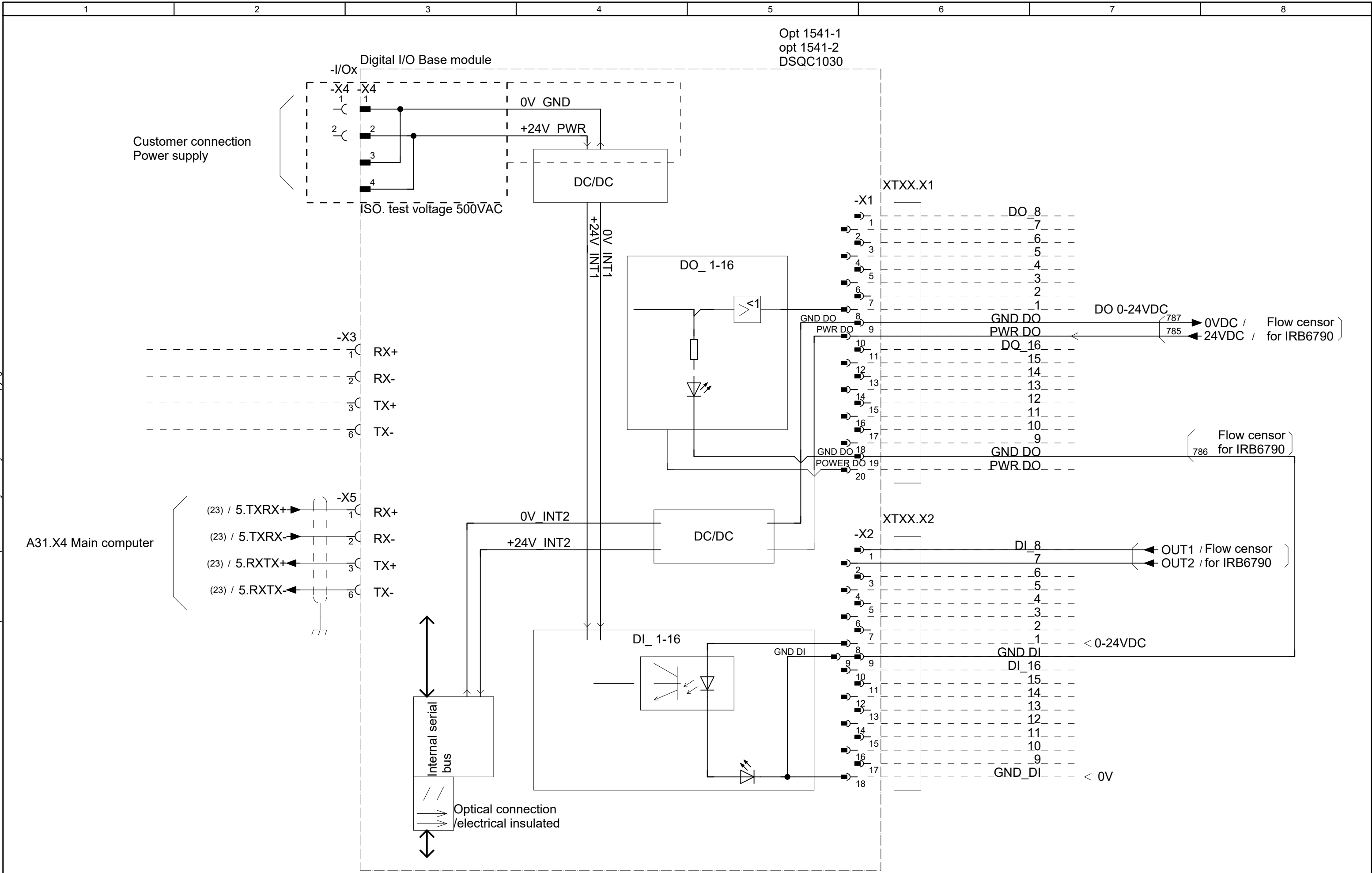
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PMC DESIGN 14 Rel: 23D
REMOTE I/O UNIT

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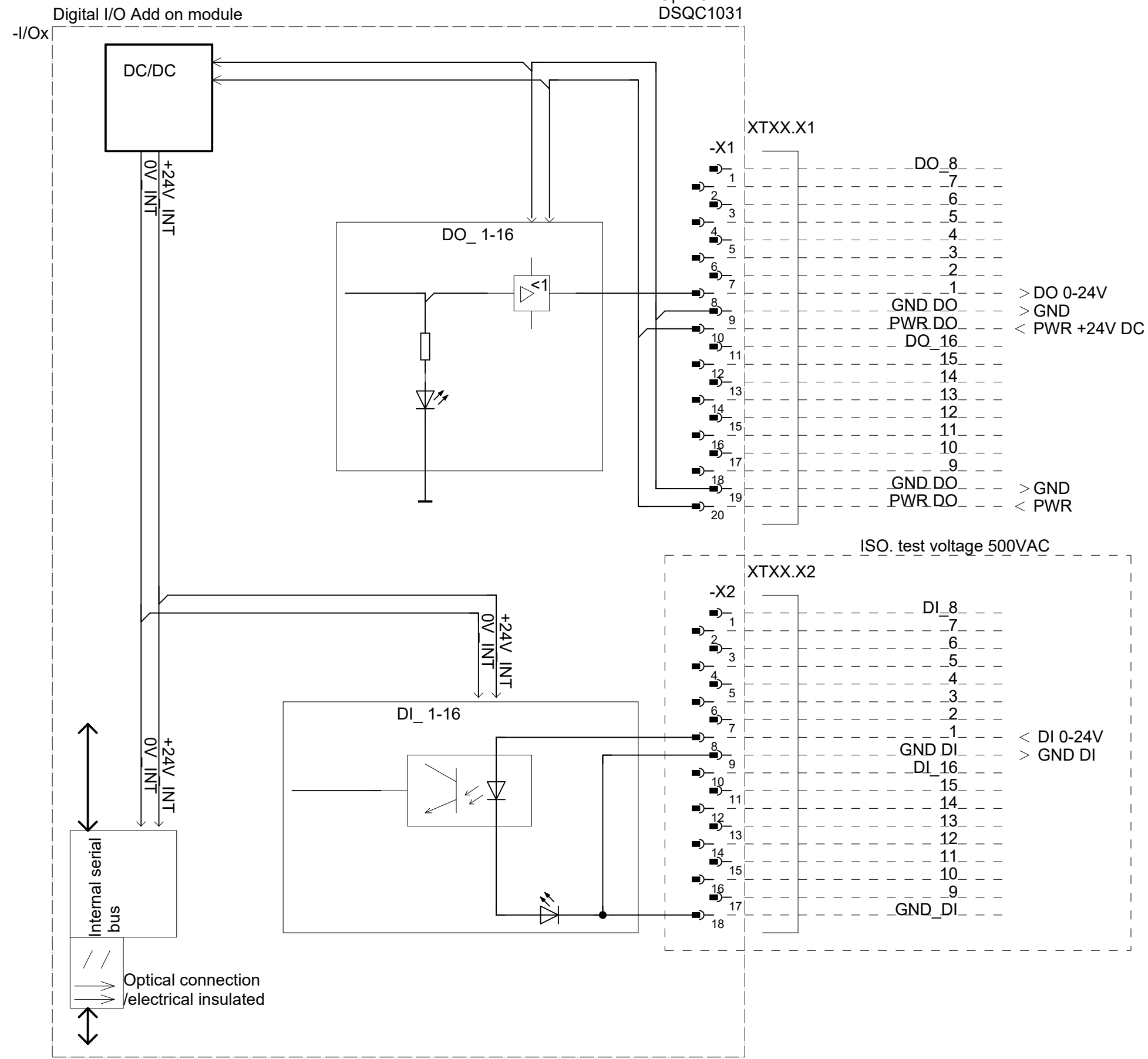


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Local I/O Digital Base 16in/16out

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Location: +
Sublocation: +

Document no. 3HAC026871-020 Rev. Ind 14 Page 34.2
Next 34.4
Total 125

Opt 1542-1
 Opt 1542-2
 DSQC1031



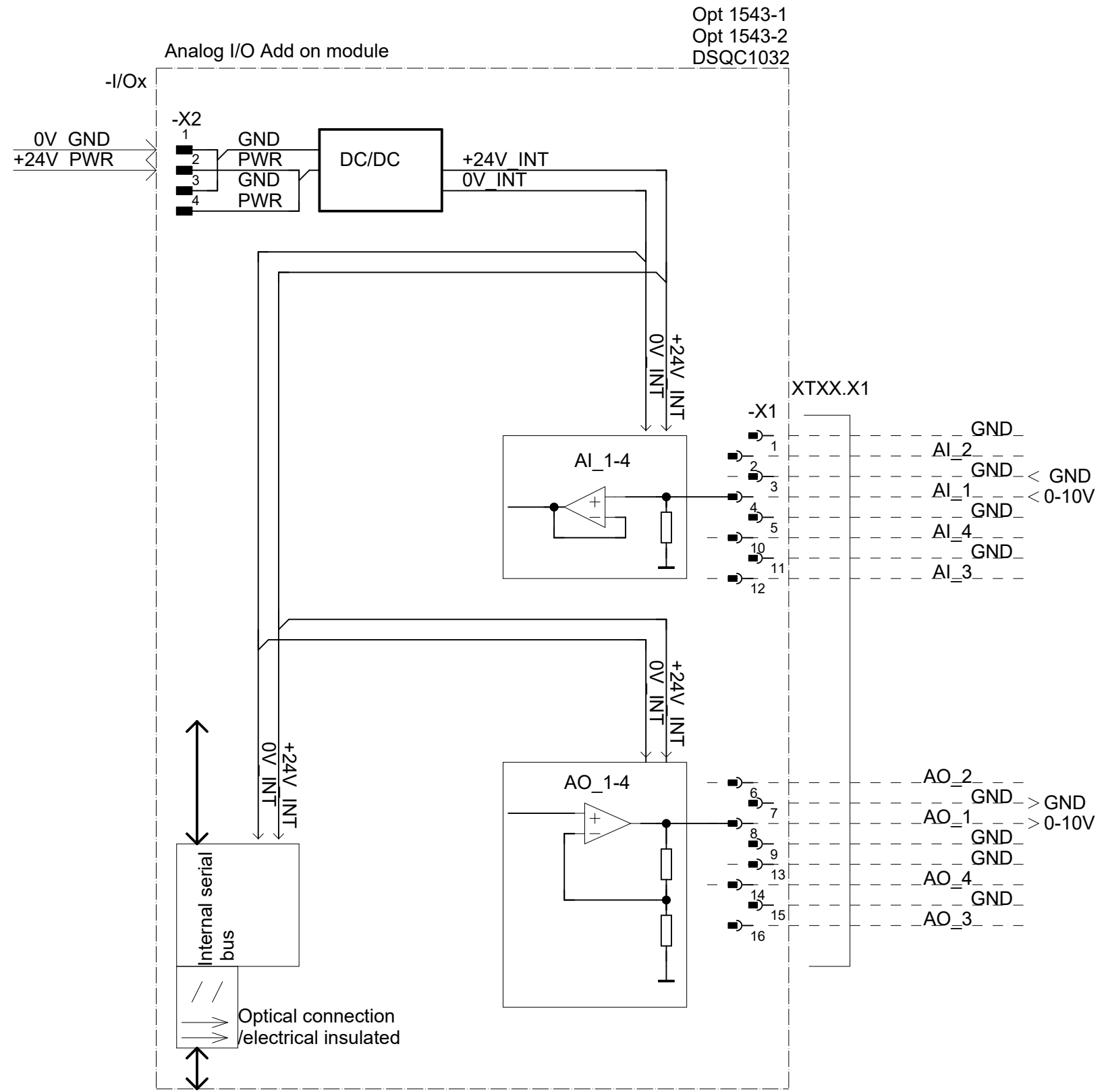
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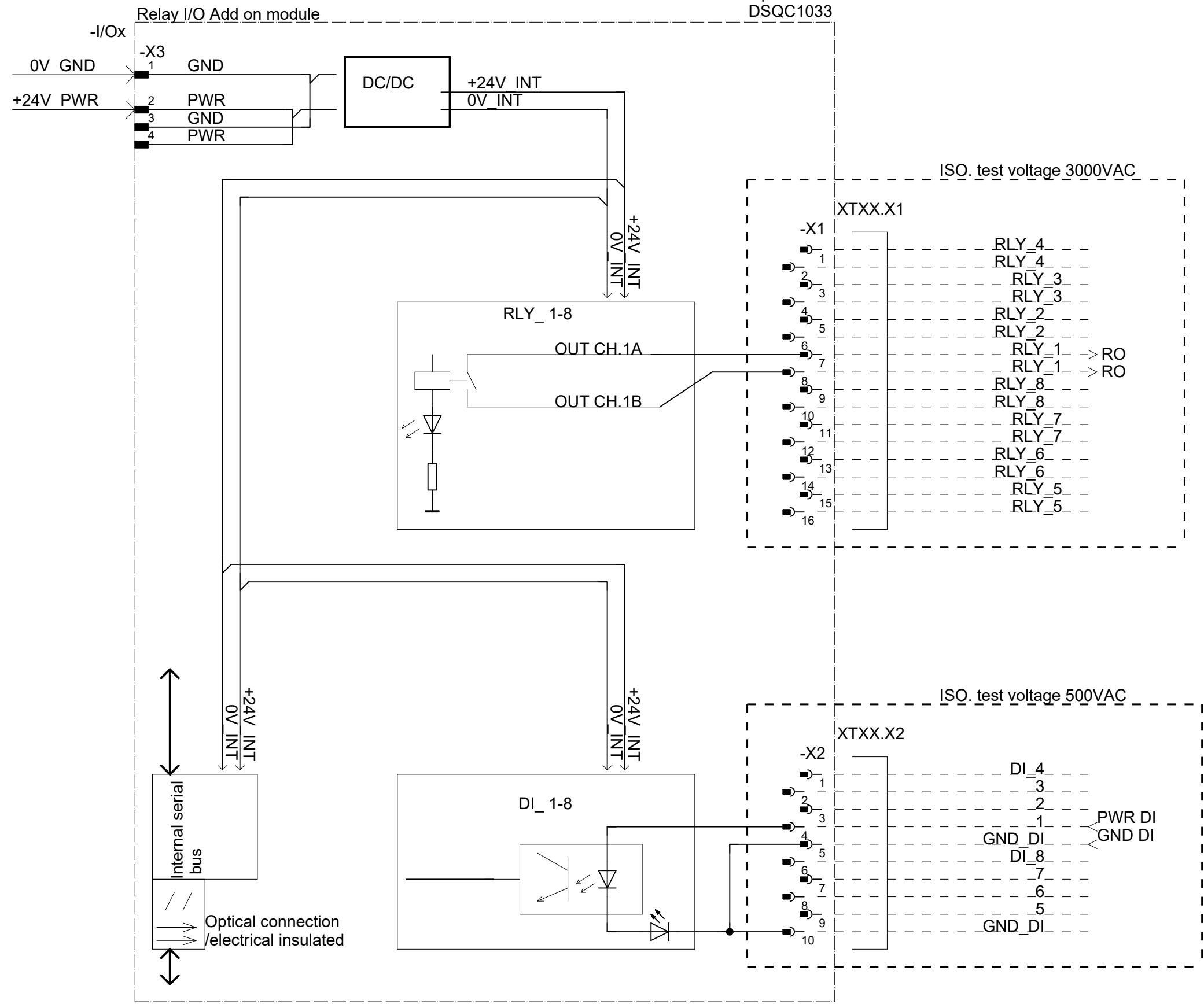


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PMC DESIGN 14 Rel: 23D
Local I/O Analog add on 4in/4out

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Document no. 3HAC026871-020			

Opt 1544-1
Opt 1544-2
DSQC1033



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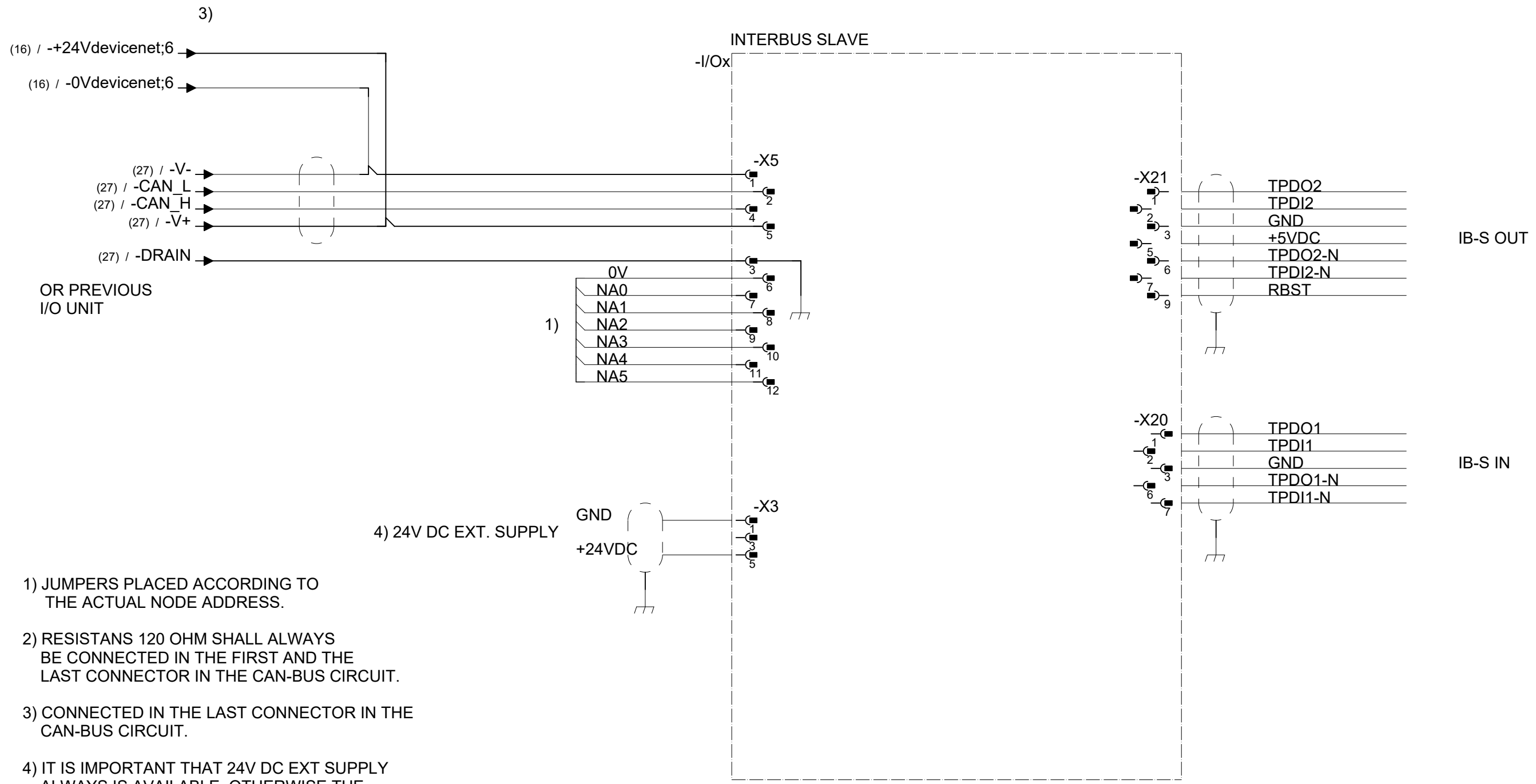
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Local I/O Relay add on 8RO/8DI

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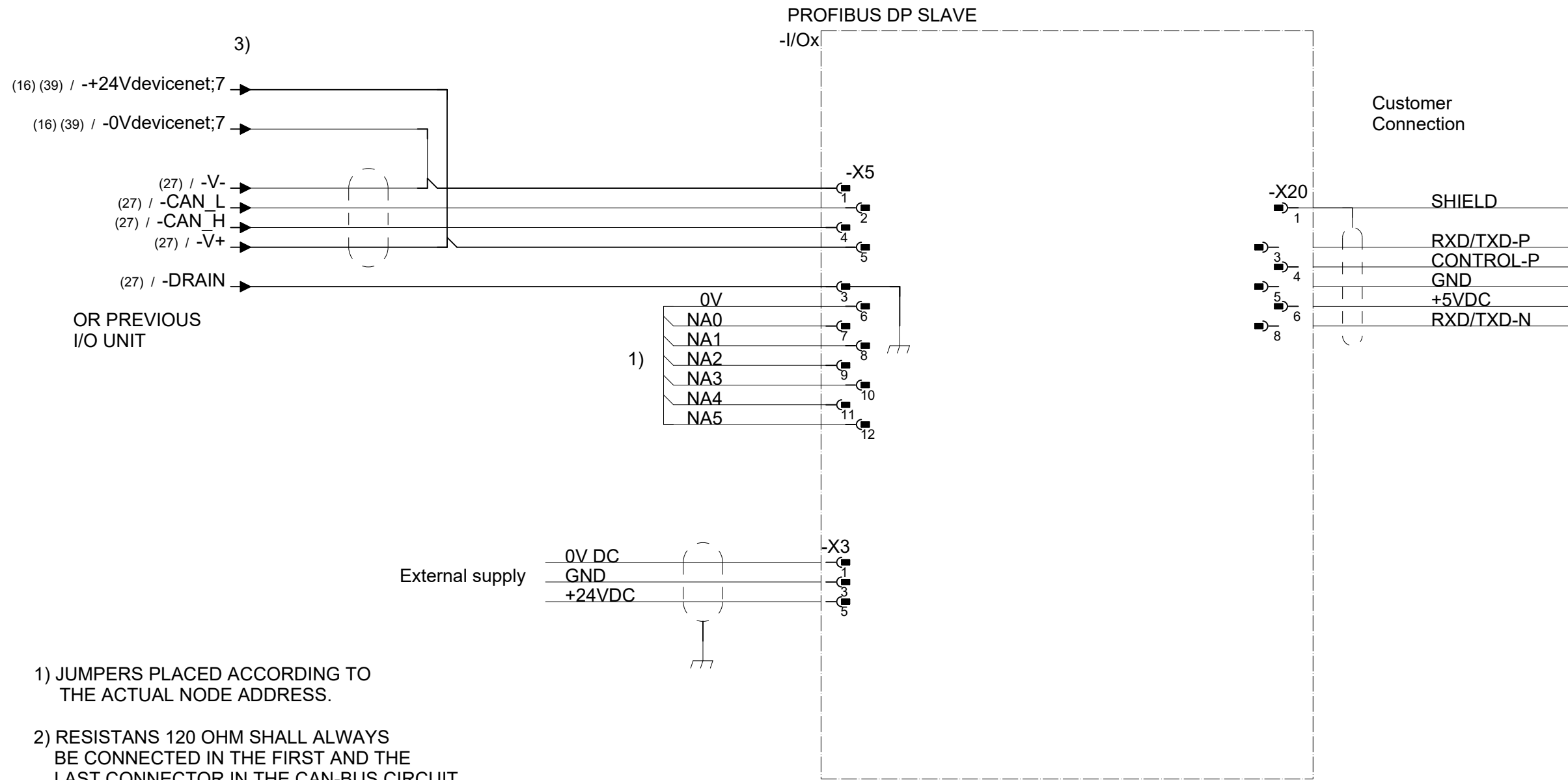
Document no. Rev. Ind Page 34.8
3HAC026871-020 14 Next 35
Total 125

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- 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) IT IS IMPORTANT THAT 24V DC EXT SUPPLY ALWAYS IS AVAILABLE. OTHERWISE THE INTERBUS CAN NOT WORK IF THE CONTROLLER IS TURNED OFF.

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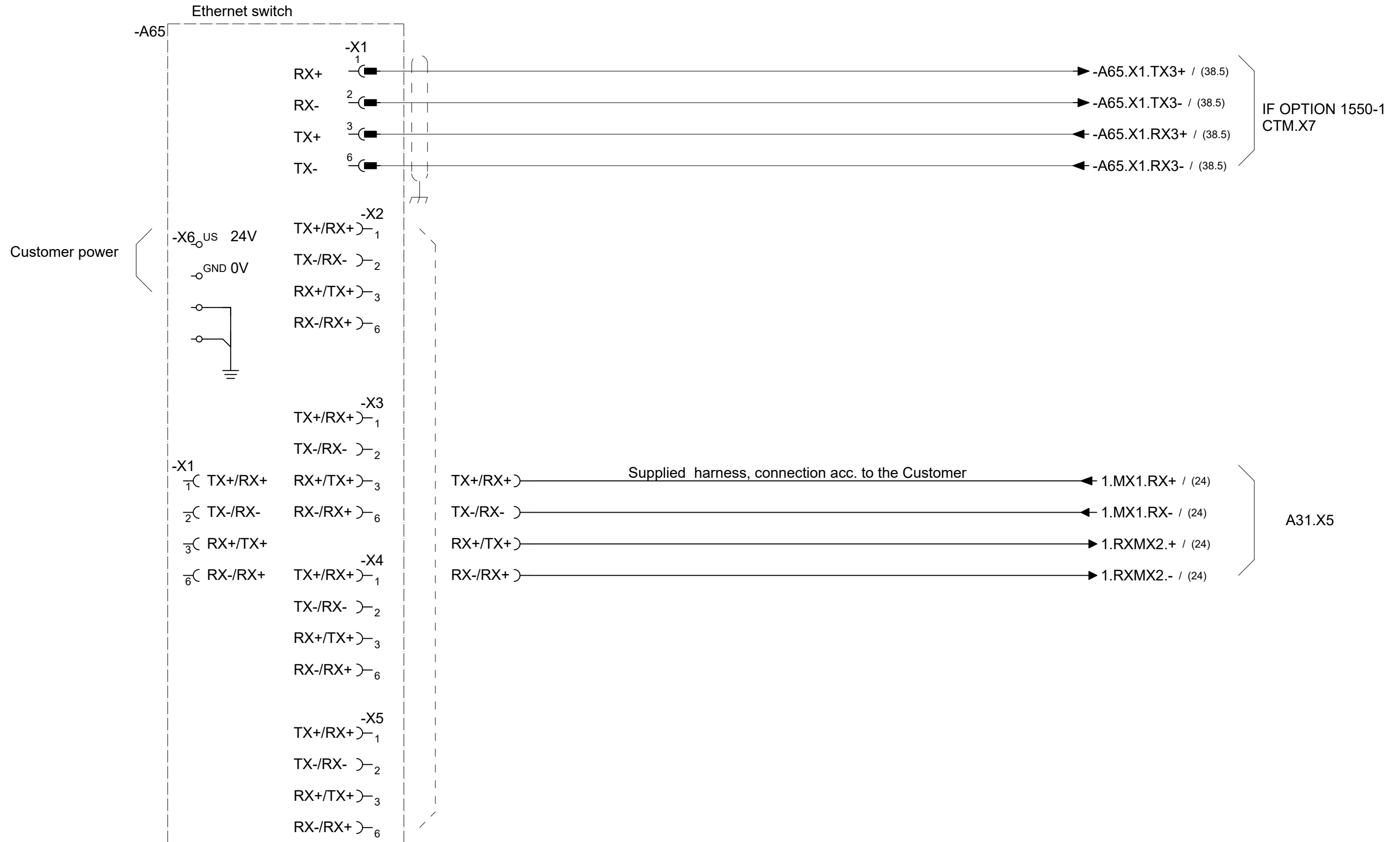


- 1) JUMPERS PLACED ACCORDING TO THE ACTUAL NODE ADDRESS.
- 2) RESISTANS 120 OHM SHALL ALWAYS BE CONNECTED IN THE FIRST AND THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.
- 3) CONNECTED IN THE LAST CONNECTOR IN THE CAN-BUS CIRCUIT.



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PMC DESIGN 14 Rel: 23D
ETHERNET SWITCH

Status:
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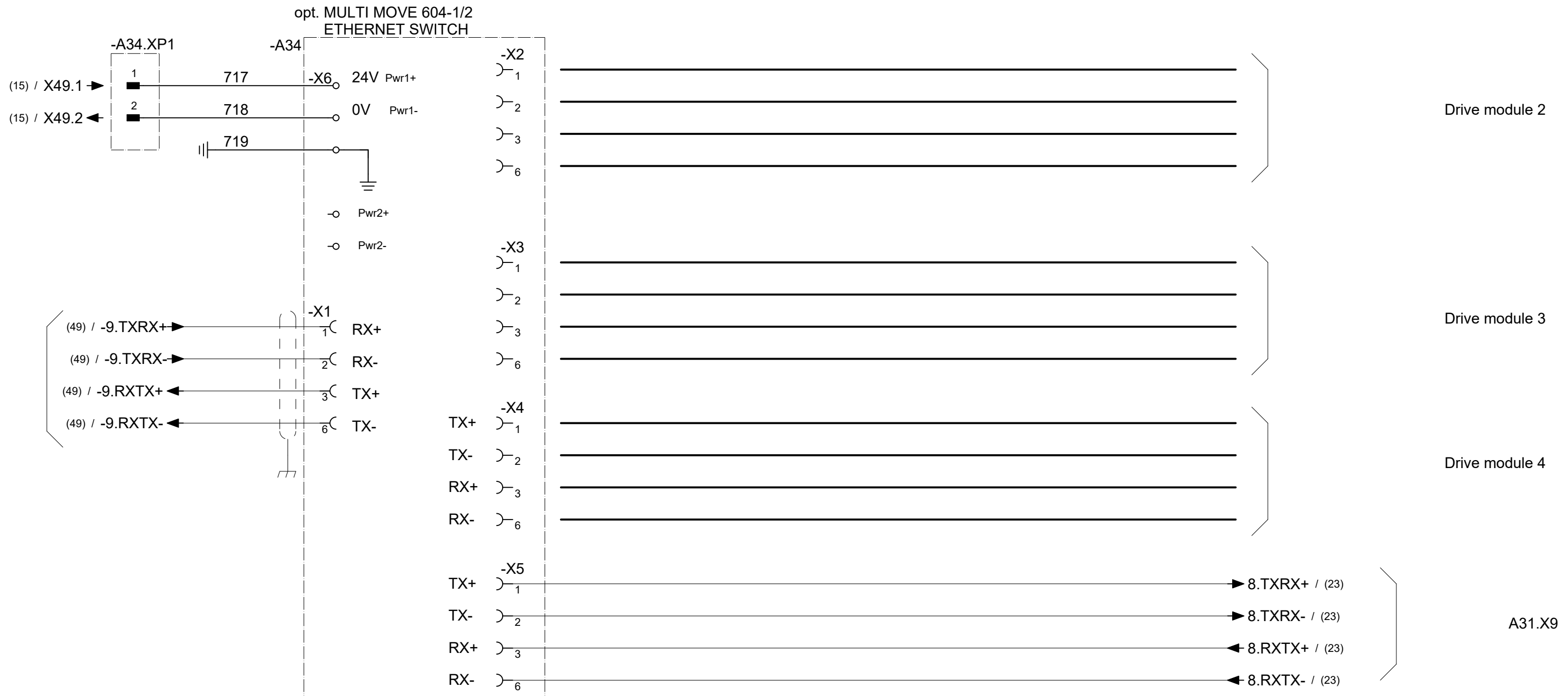
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Rev. Ind	Page 37
14	Next 37.1
	Total 125

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PROCESS POWER SUPPLY G2

A42.X2



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ETHERNET SWITCH A34, option MULTI MOVE
604-1/2

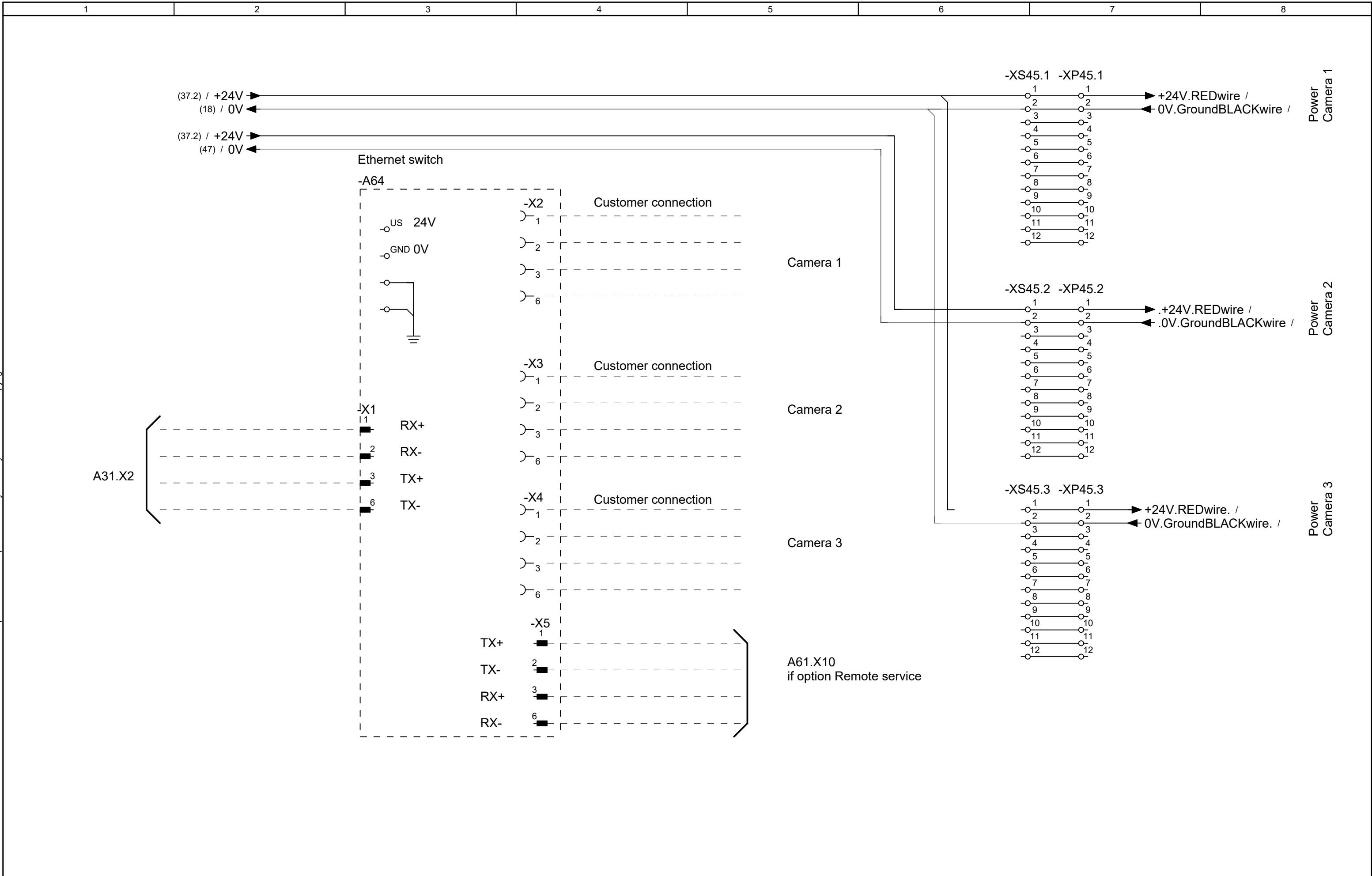
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Rev. Ind Page 37.1
14 Next 37.2
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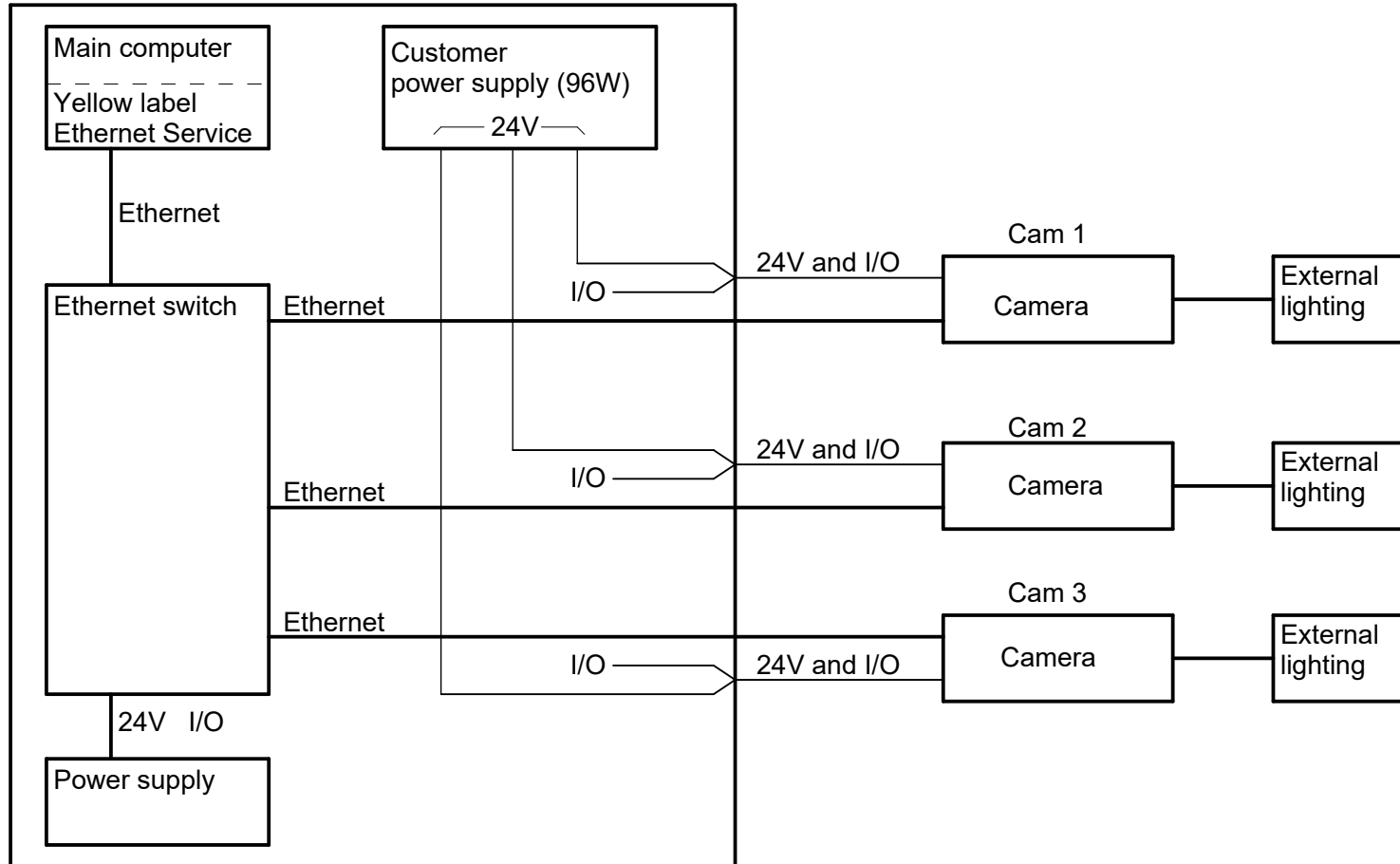


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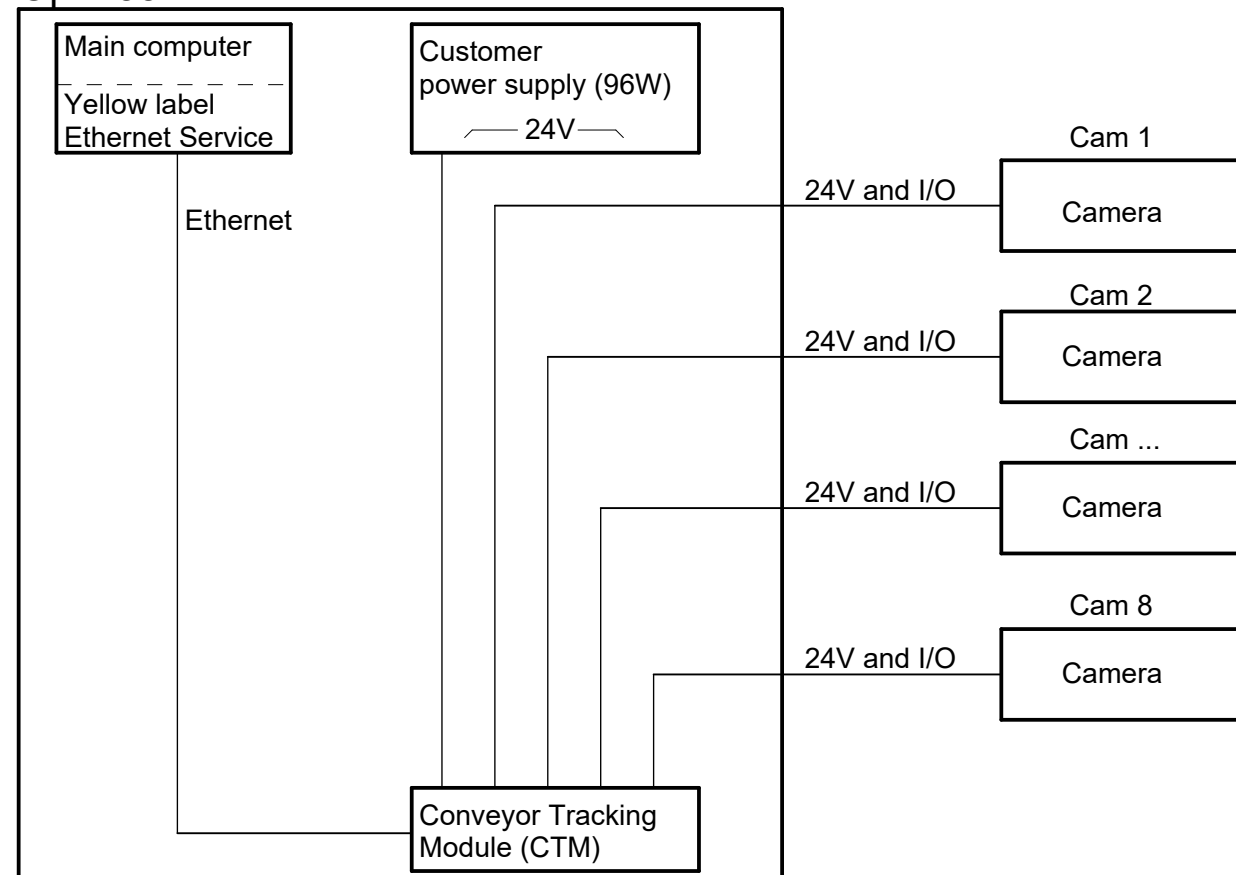
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 RA/RDP ETHERNET SWITCH A64/CAMERA

Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HAC026871-020	Rev. Ind 14
	Page 37.2 Next 37.3 Total 125

Robot controller



Robot controller with Conveyor Tracking.
Opt.1551-1



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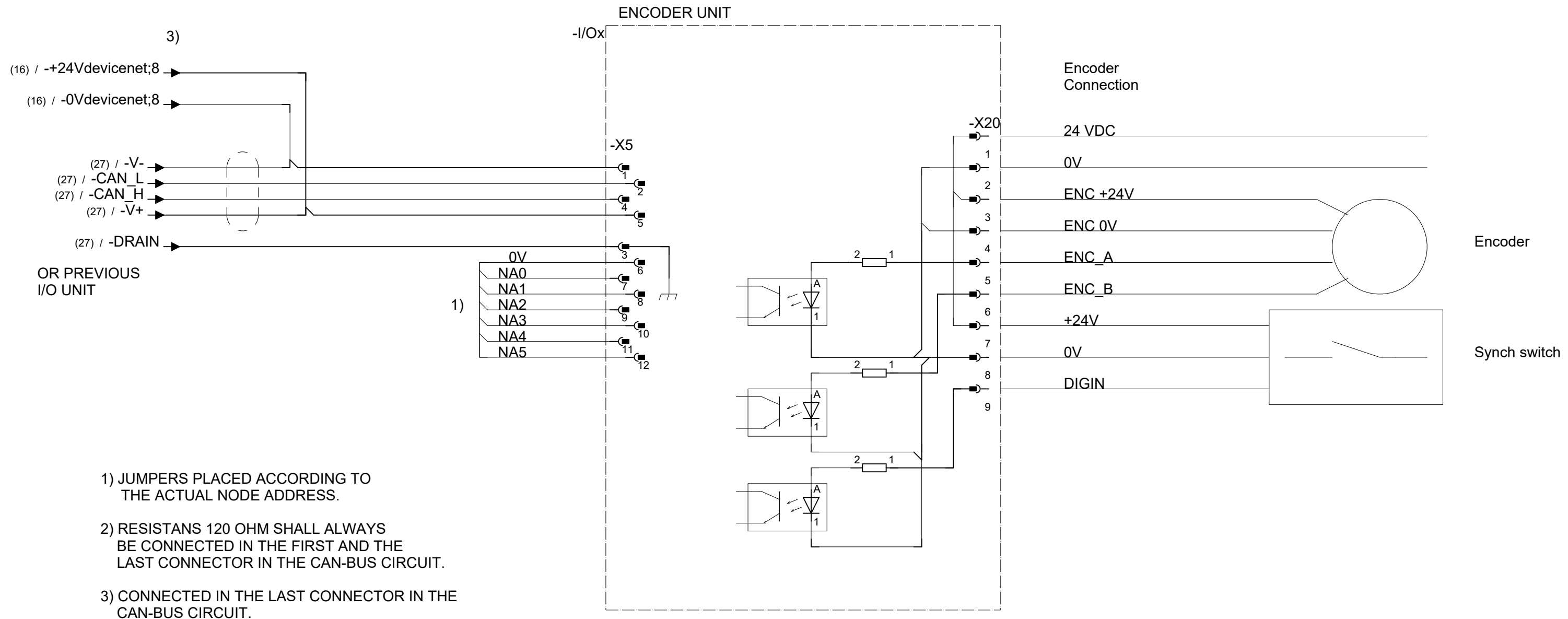
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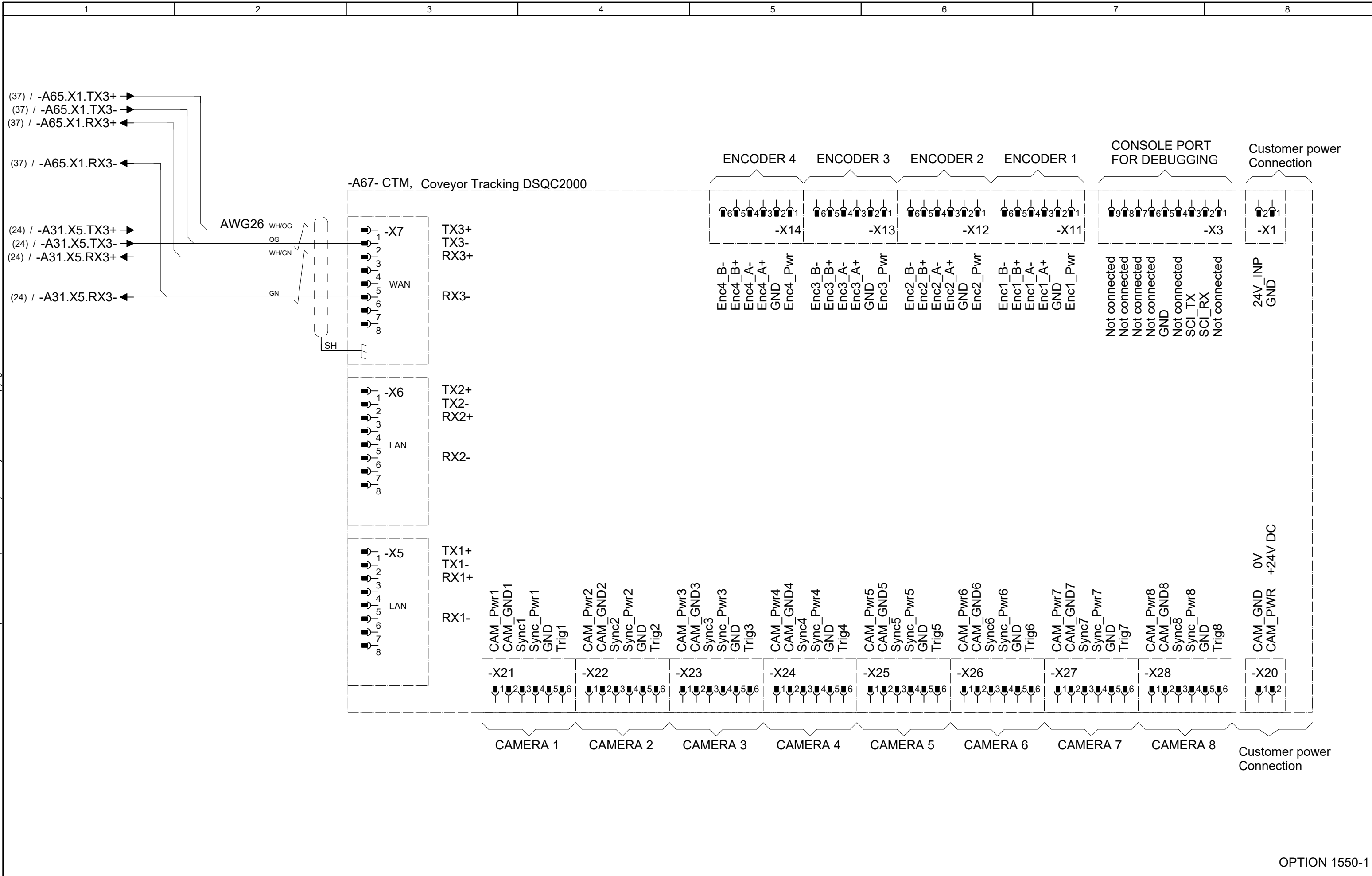
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VISION, INTEGRATED CAMERAS

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OPTION 1550-1

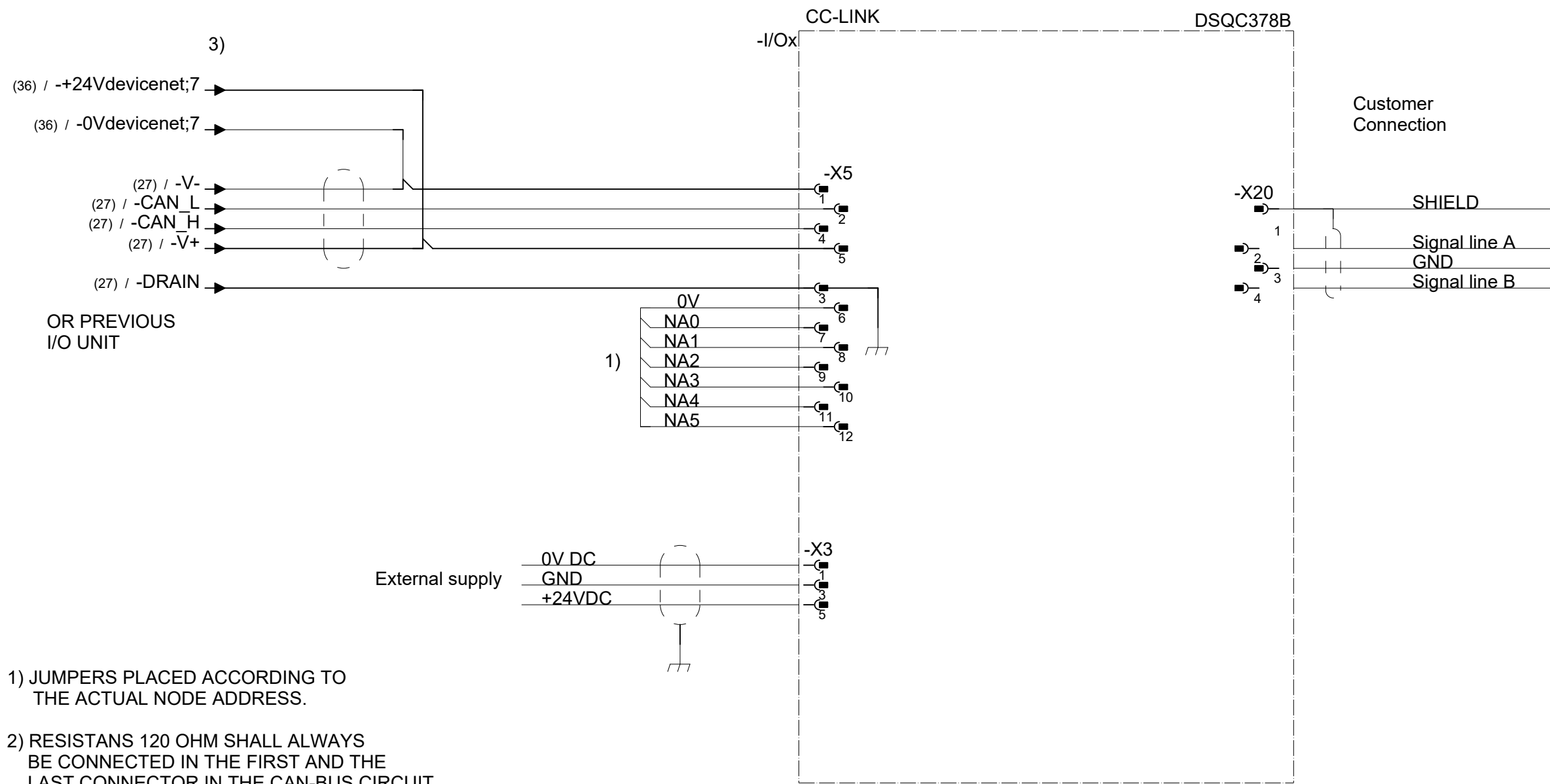
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CONVEYOR TRACKING MODULE, DSQC 2000

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 38.5 Next 39 Total 125



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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.



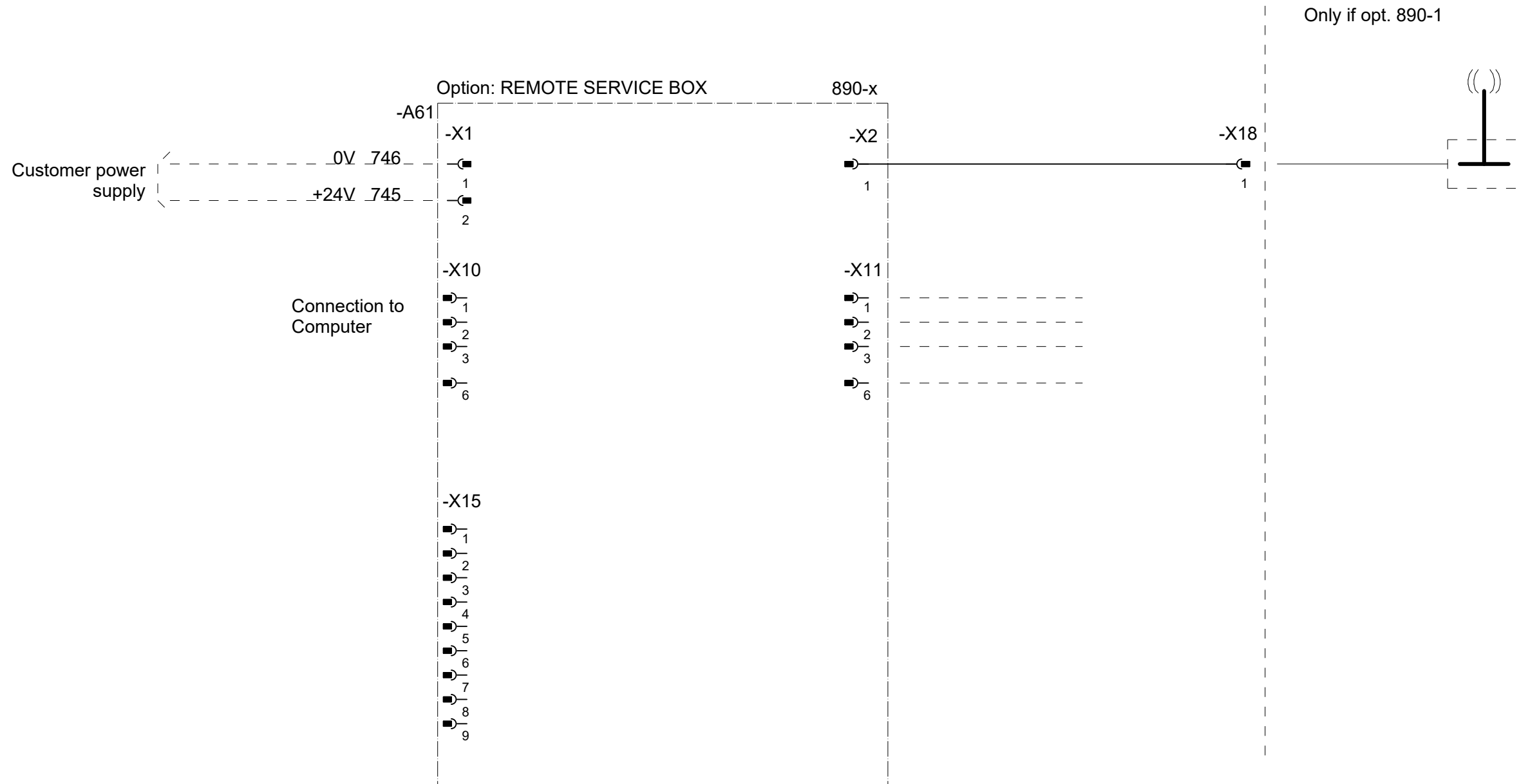
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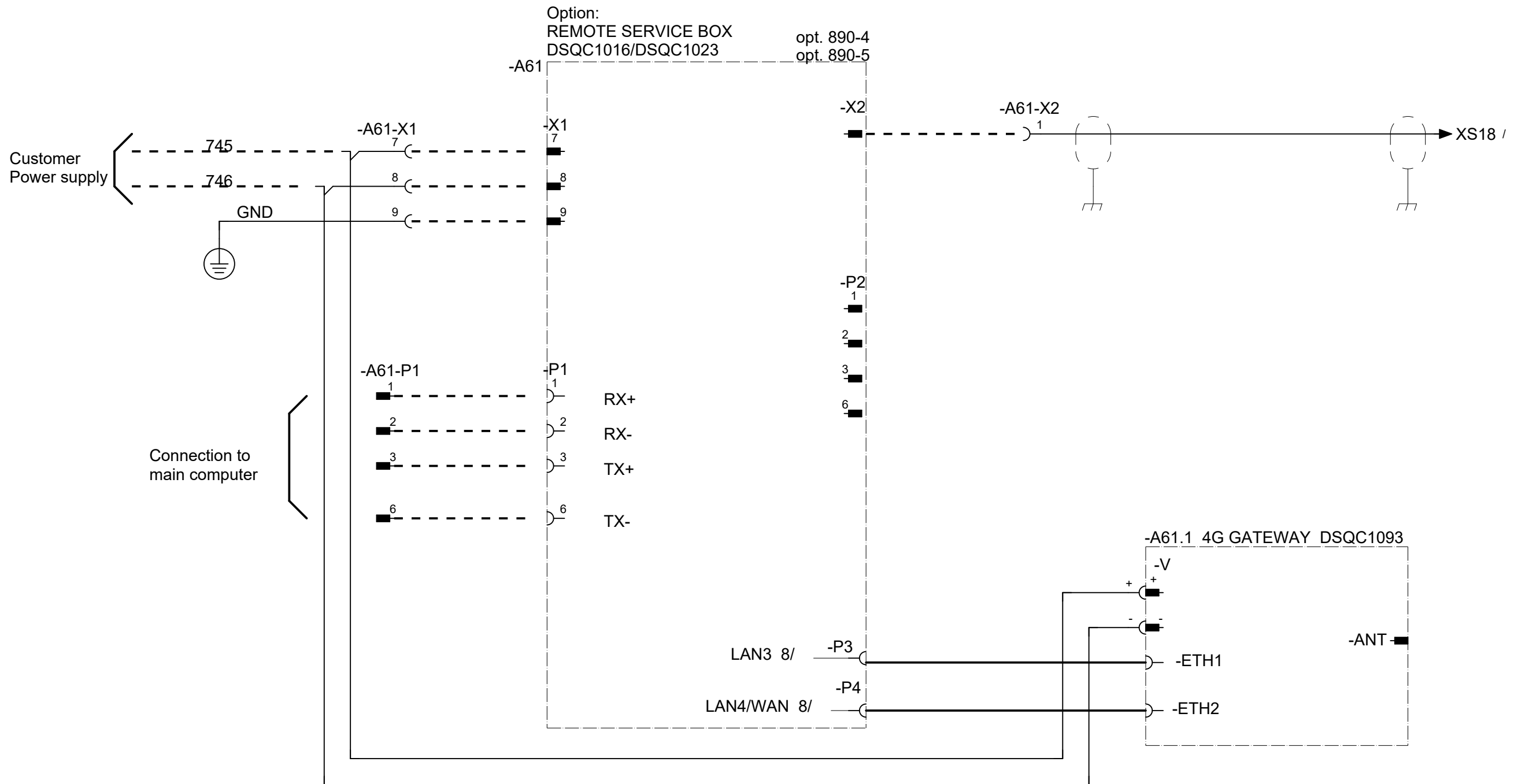
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 PMC DESIGN 14 Rel: 23D
 REMOTE SERVICE BOX for Rel. 16.1 and earlier

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 40 Next 40.1 Total 125

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 from Rel. 16.2

Status:
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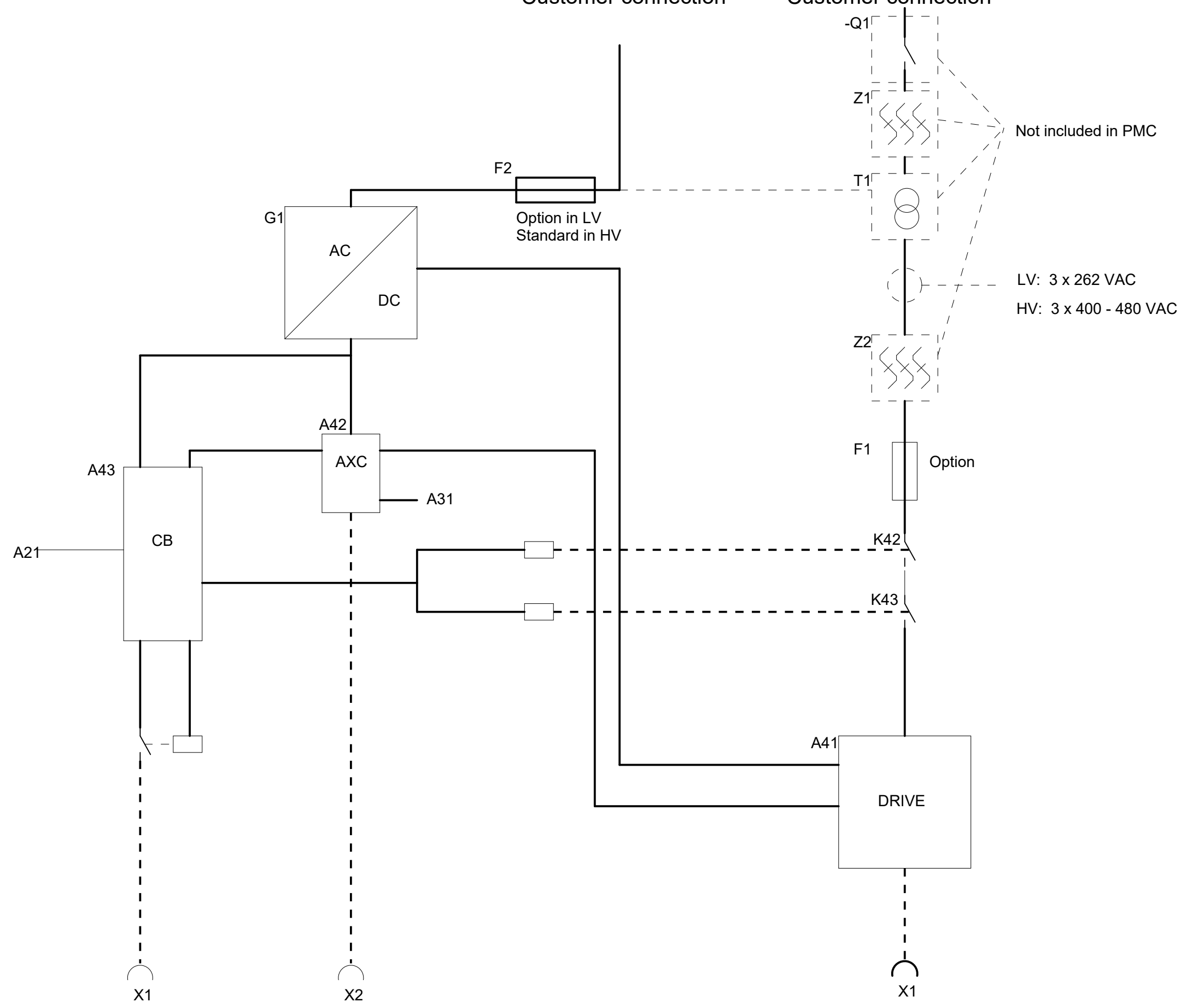
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Document no.
 3HAC026871-020

Rev. Ind
 14
 Page 40.1
 Next 41
 Total 125

230VAC
Customer connection

3 x 200 - 600VAC
Customer connection



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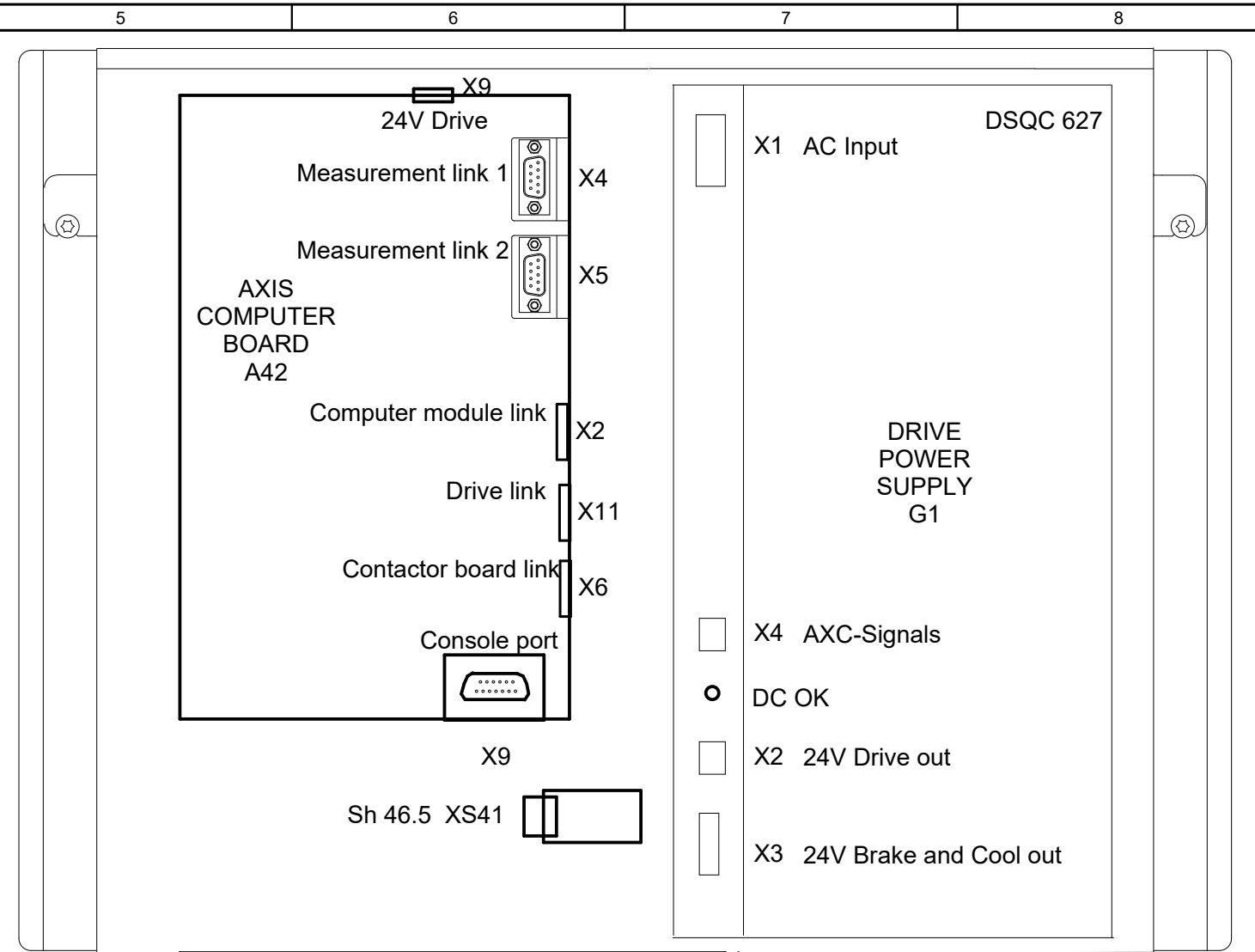
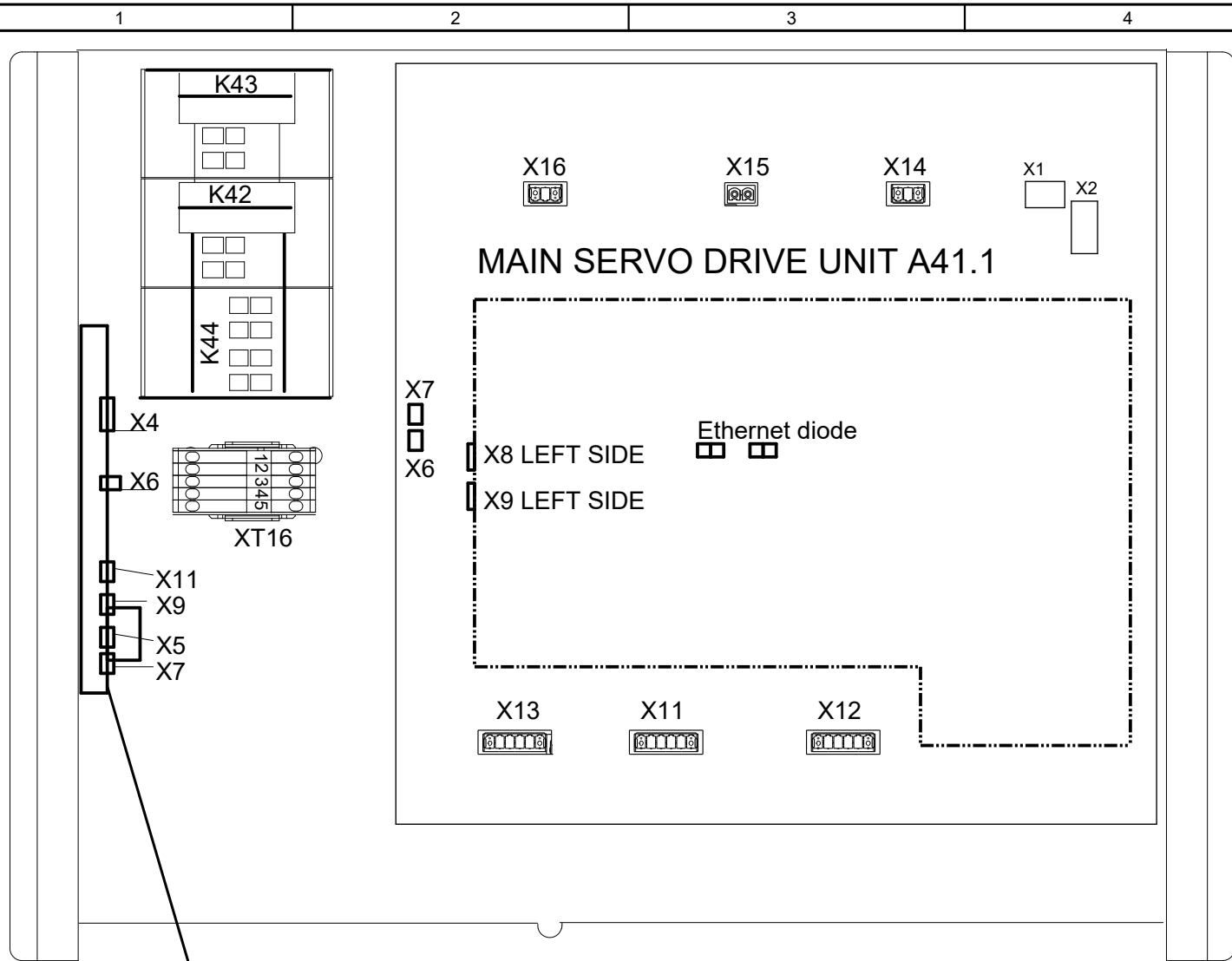
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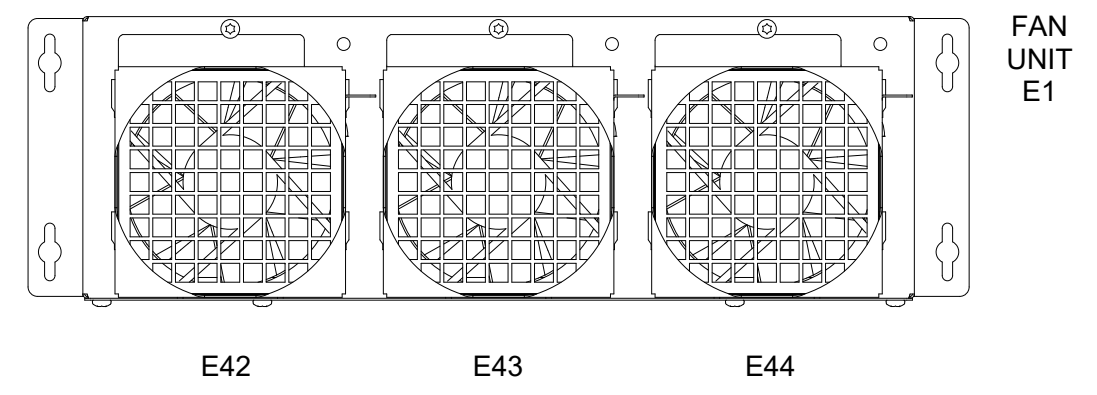
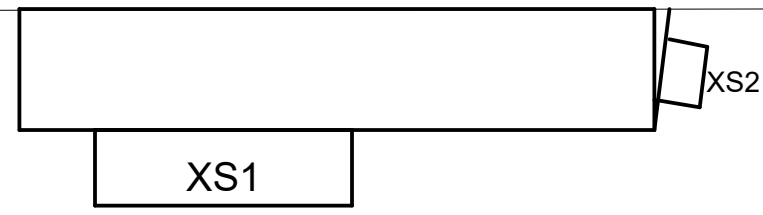
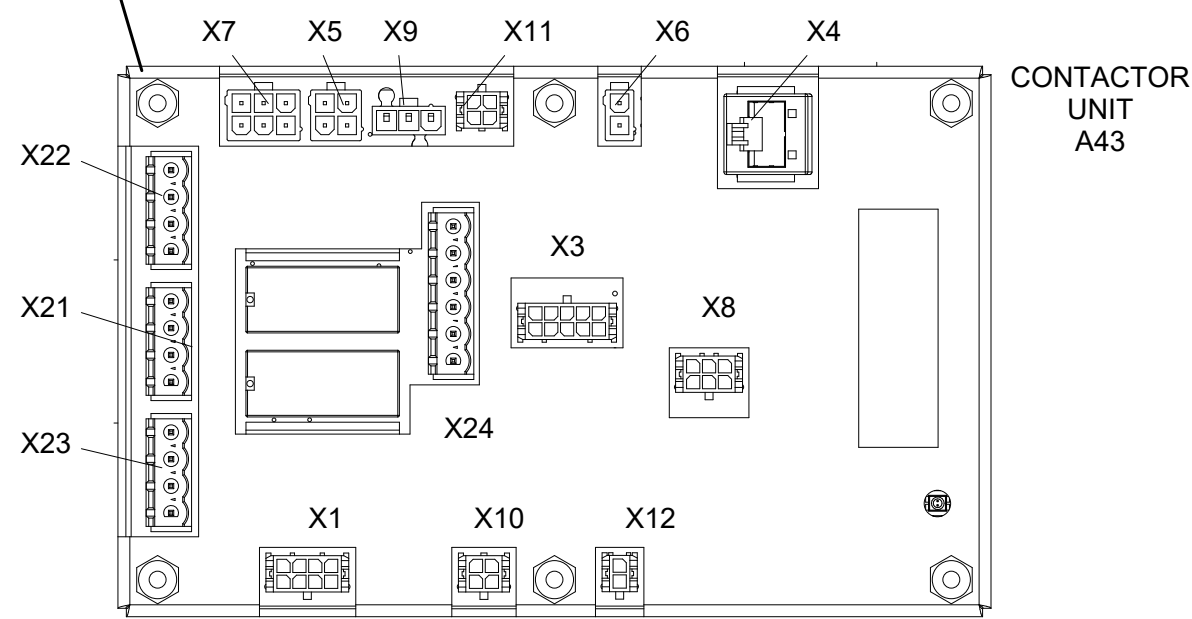
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BLOCK DIAGRAM DRIVE UNIT

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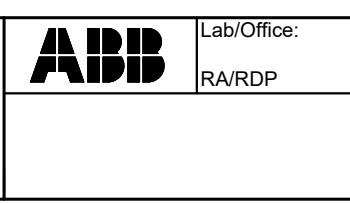


- X4 AXC-Signals
- X2 24V Drive out
- X3 24V Brake and Cool out
- X1 AC Input
- X5
- X6
- X7
- X8
- X9
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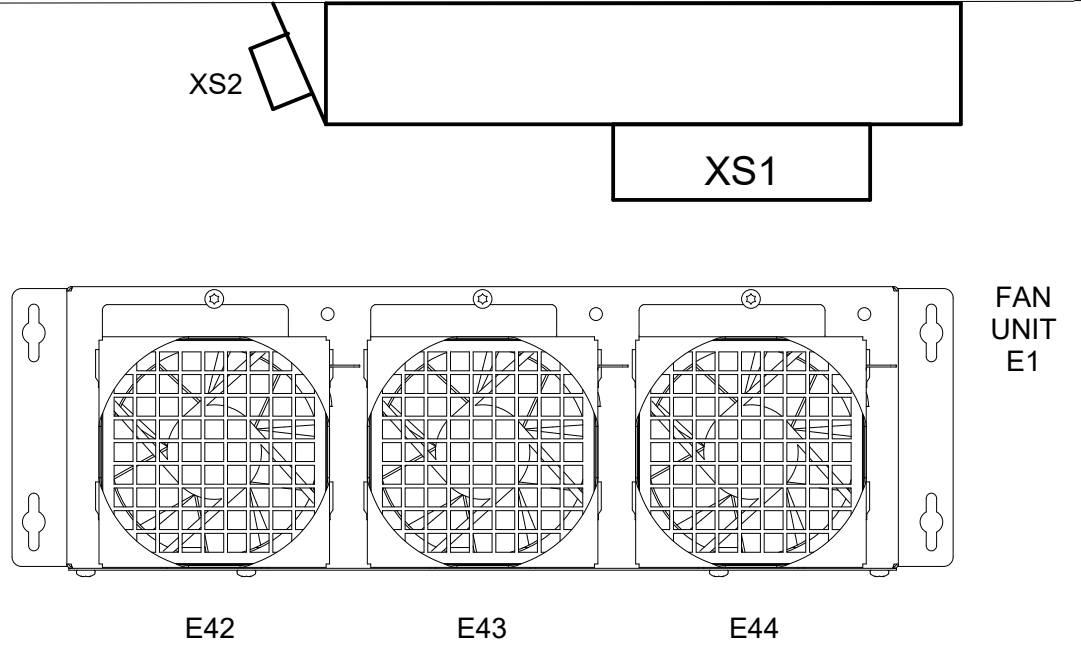
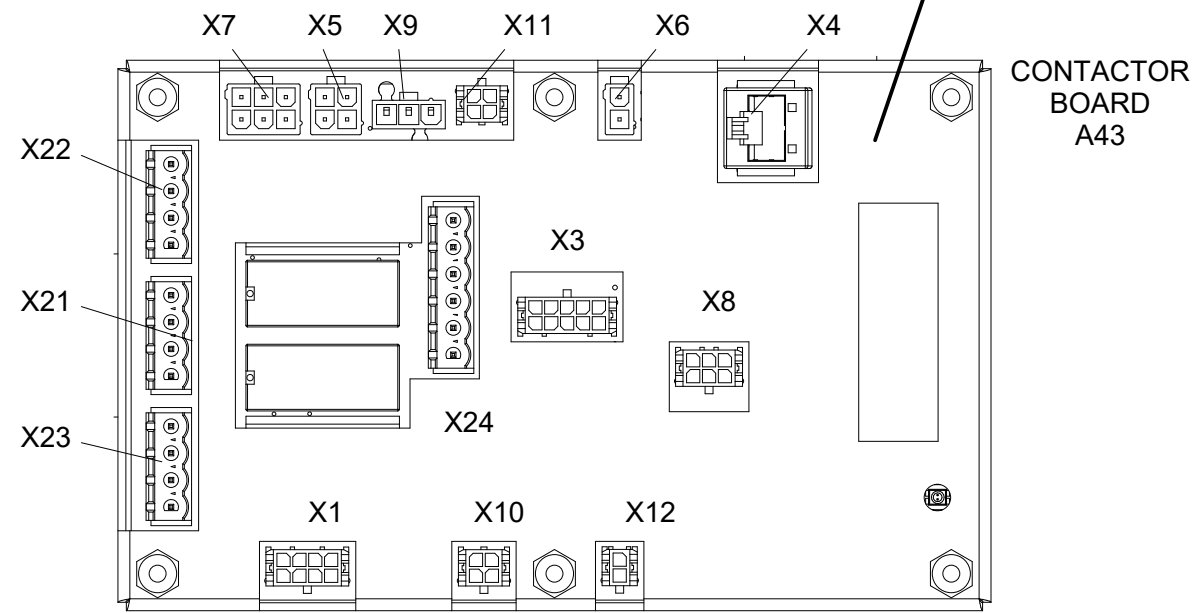
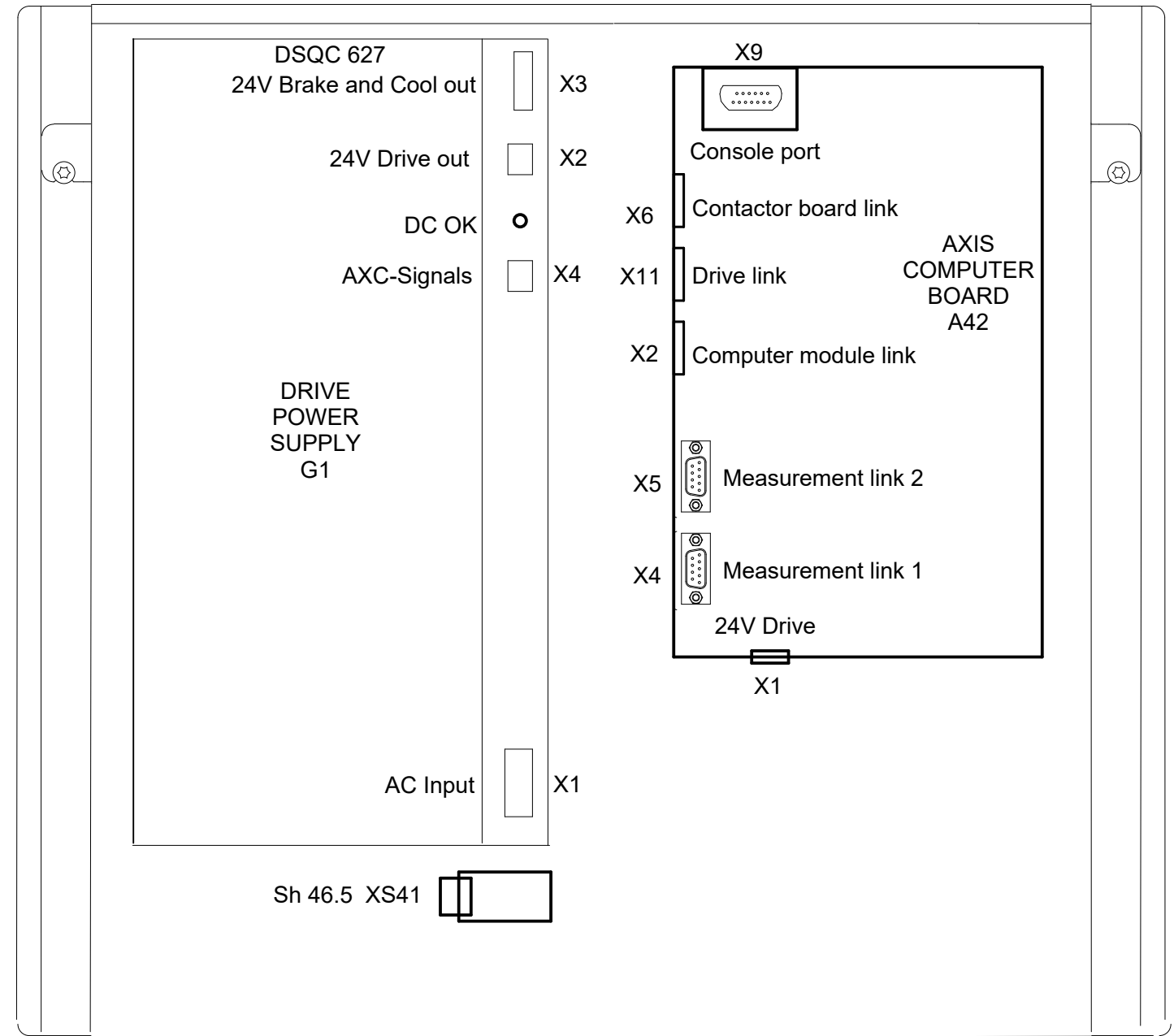
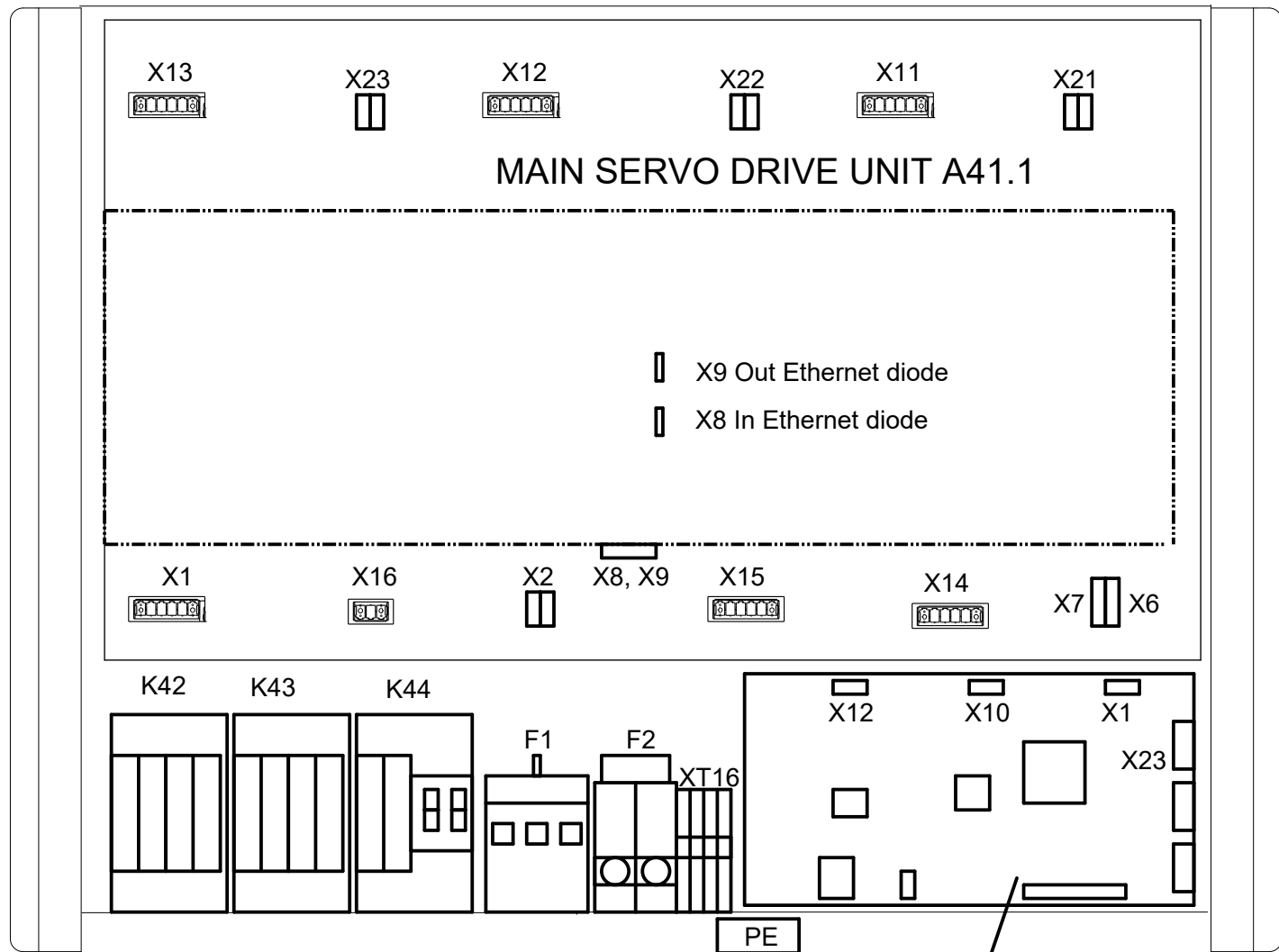


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PMC DESIGN 14 Rel: 23D
VIEW OF DRIVE MODULE LV

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	Page 42 Next 43 Total 125

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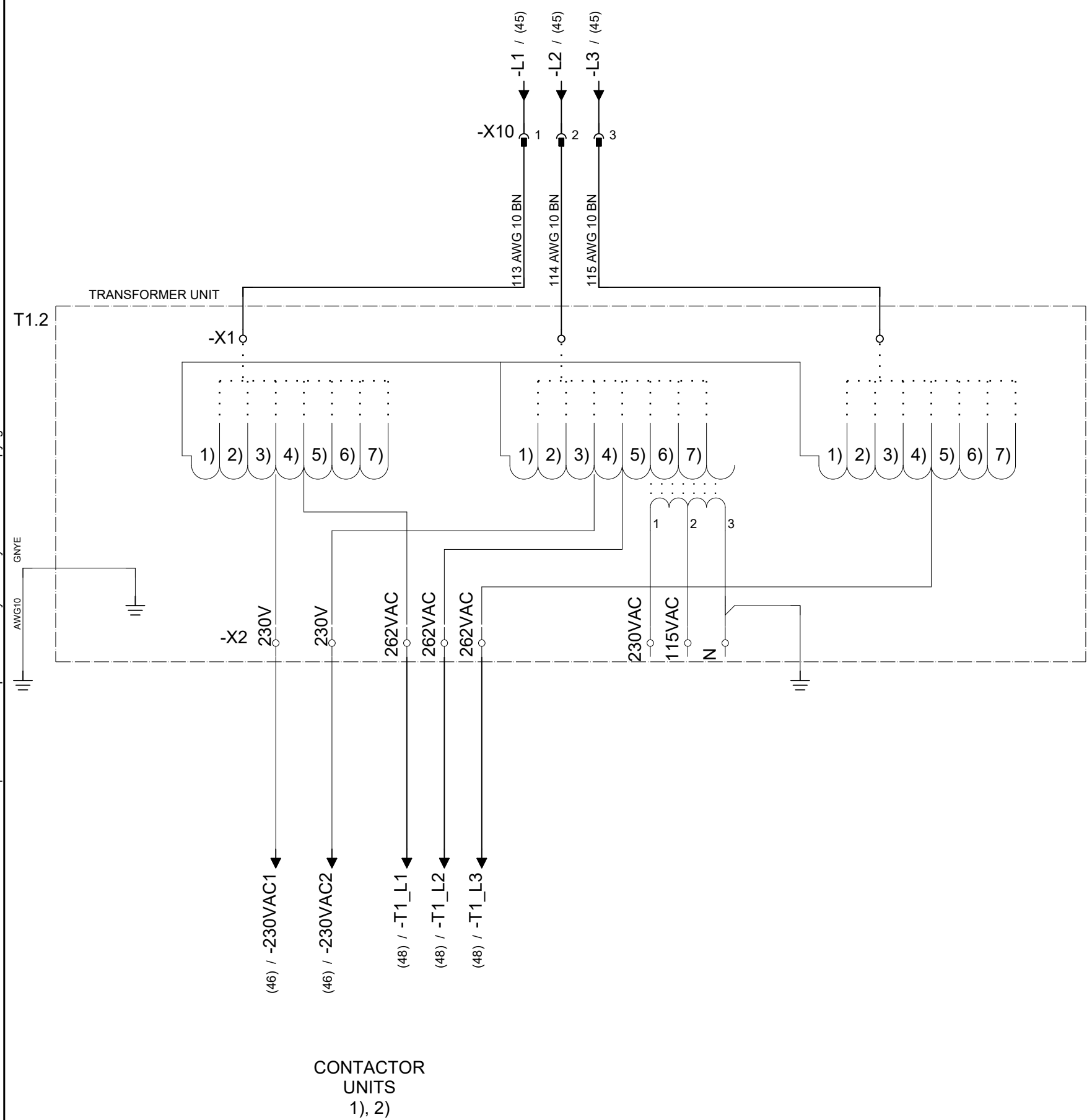


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VIEW OF DRIVE MODULE HV

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 43 Next 44 Total 125

MAINS CONNECTION



Option: Transformer T1.2 L1-L2-L3 = 262V
 if IRB120 - 360, 14x0 - 44x0, 6400R
 T1.2

Terminal	3HAC037016-001 (4,2kVA)	3HAC037017-001 (4,2kVA)	3HAC037018-001 (4,2kVA)	3HAC024180-001 (6,0kVA)
1)	200V	400V	440V	200V
2)	220V	—	480V	220V
3)	—	—	500V	400V
4)	—	—	600V	440V
5)	—	—	—	480V
6)	—	—	—	500V
7)	—	—	—	600V

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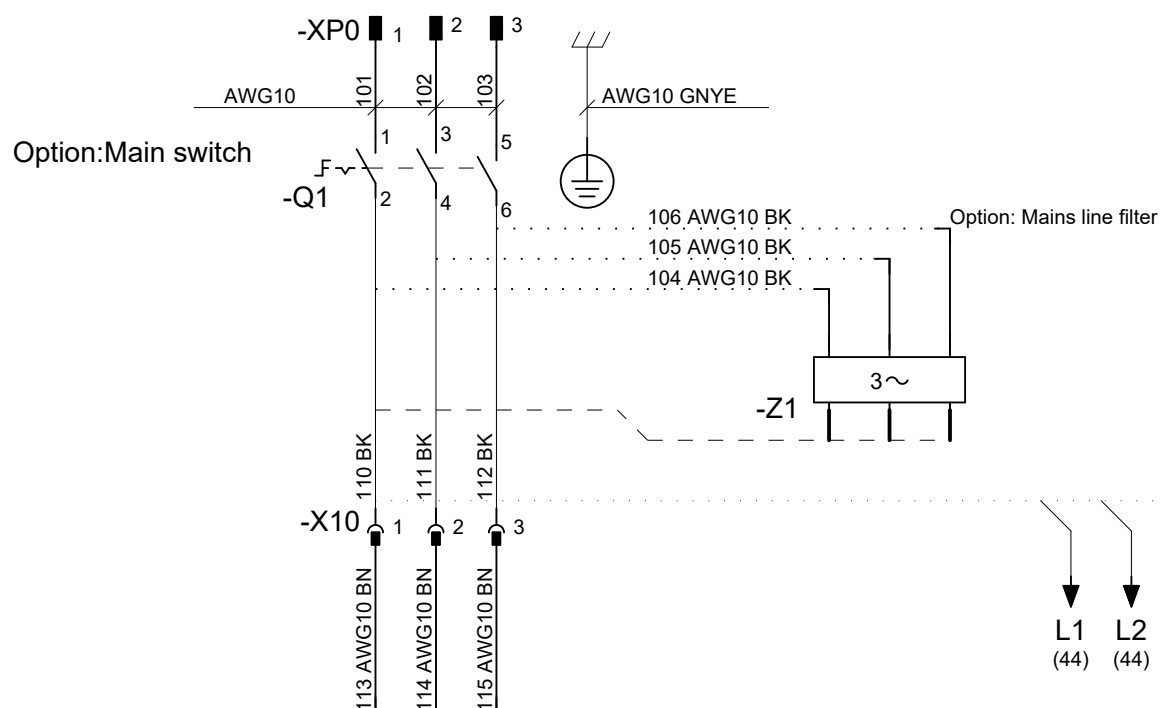


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 PMC DESIGN 14 Rel: 23D
 TRANSFORMER UNIT 262V

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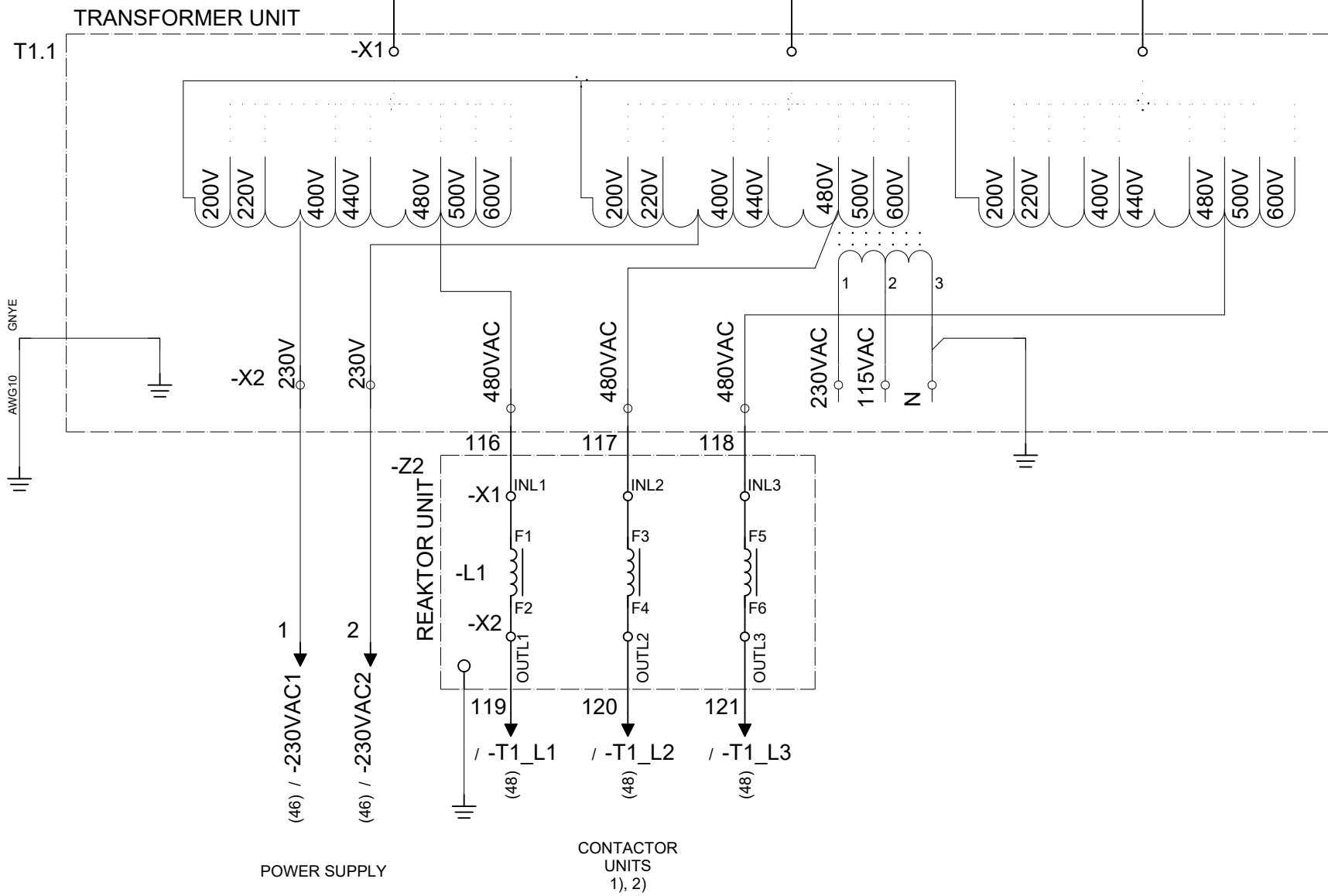
Document no. 3HAC026871-020
 Rev. Ind 14
 Page 44
 Next 45
 Total 125

MAINS CONNECTION



Transformer
 T1.3 USED FOR DIRECT POWER SUPPLY:
 IRB460, 660, 760, 4600, 66x0, 6700 .400-480V
 IRB7600480V
 3HAC 037015-001 1,2 kVA

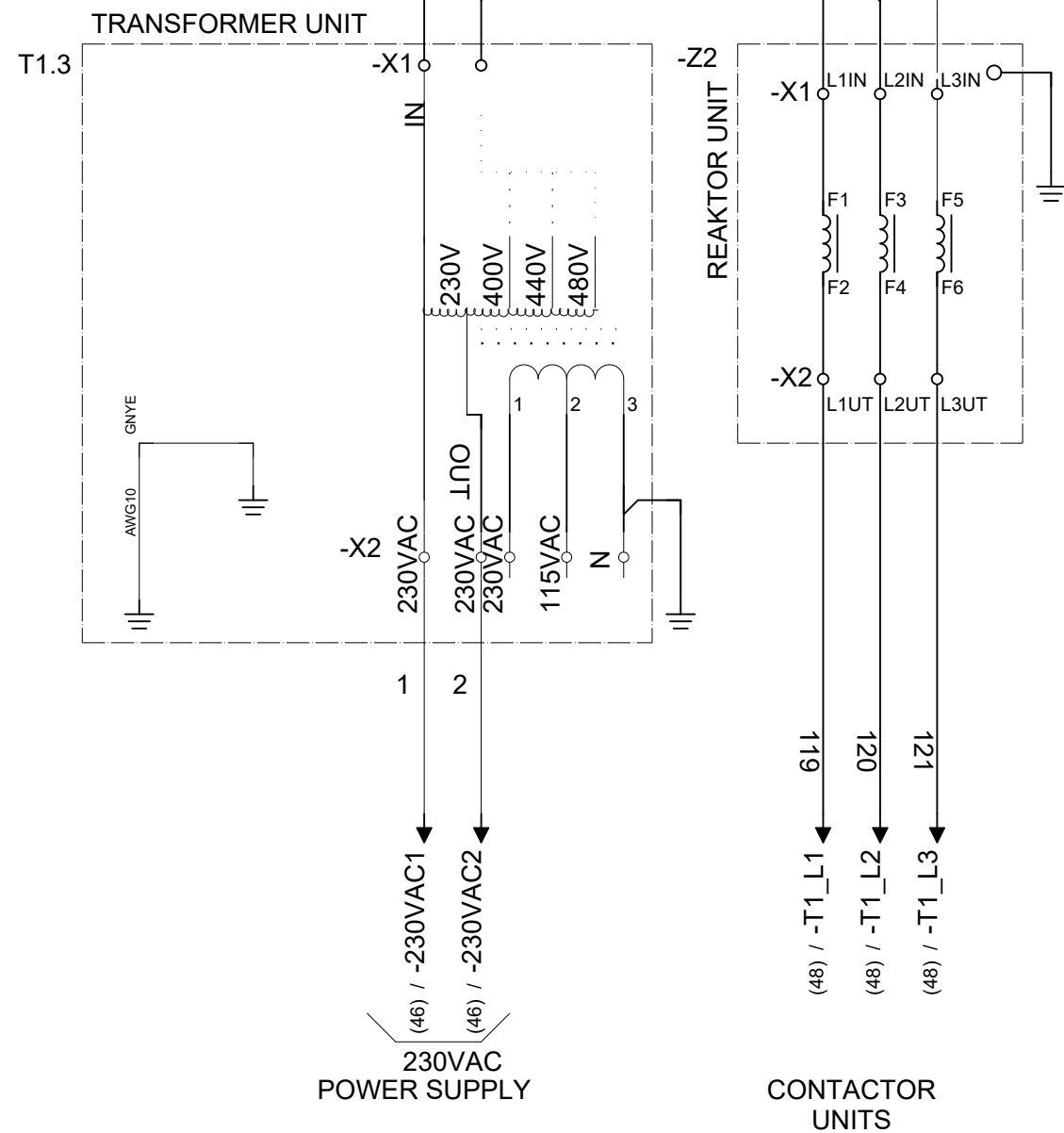
Transformer
 T1.1 3HAC 024138-001 (13kVA)
 IRB460, 660, 760, 4600, 66x0, 6700, 7600



POWER SUPPLY
 CONTACTOR UNITS
 1), 2)

Transformer
 Option T1.2 L1-L2-L3 = 262VAC
 if IRB140-2600

L1 (44)
 L2 (44)
 L3 (44)



230VAC POWER SUPPLY
 CONTACTOR UNITS

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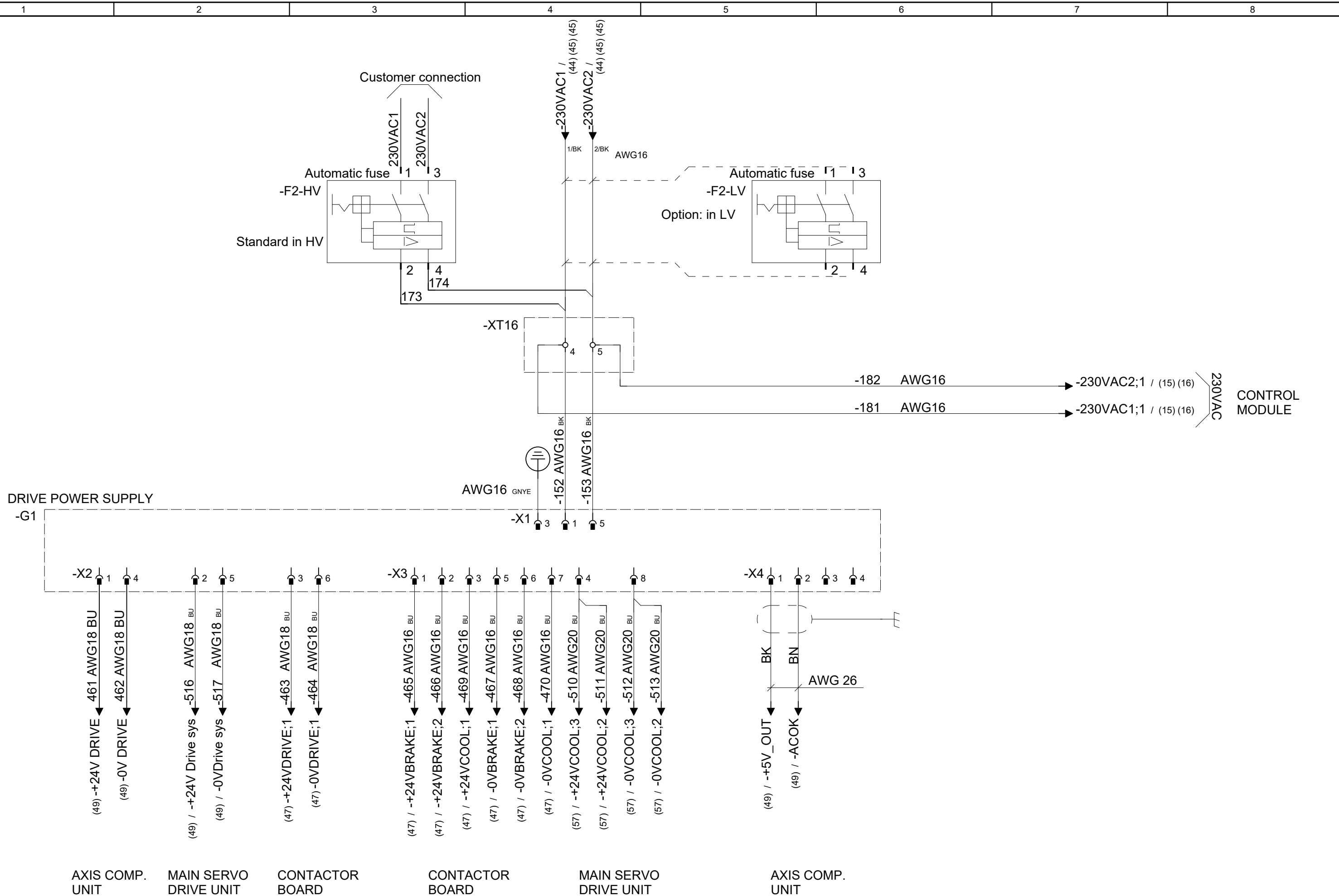
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AXIS COMP. UNIT

MAIN SERVO DRIVE UNIT

CONTACTOR BOARD

CONTACTOR BOARD

MAIN SERVO DRIVE UNIT

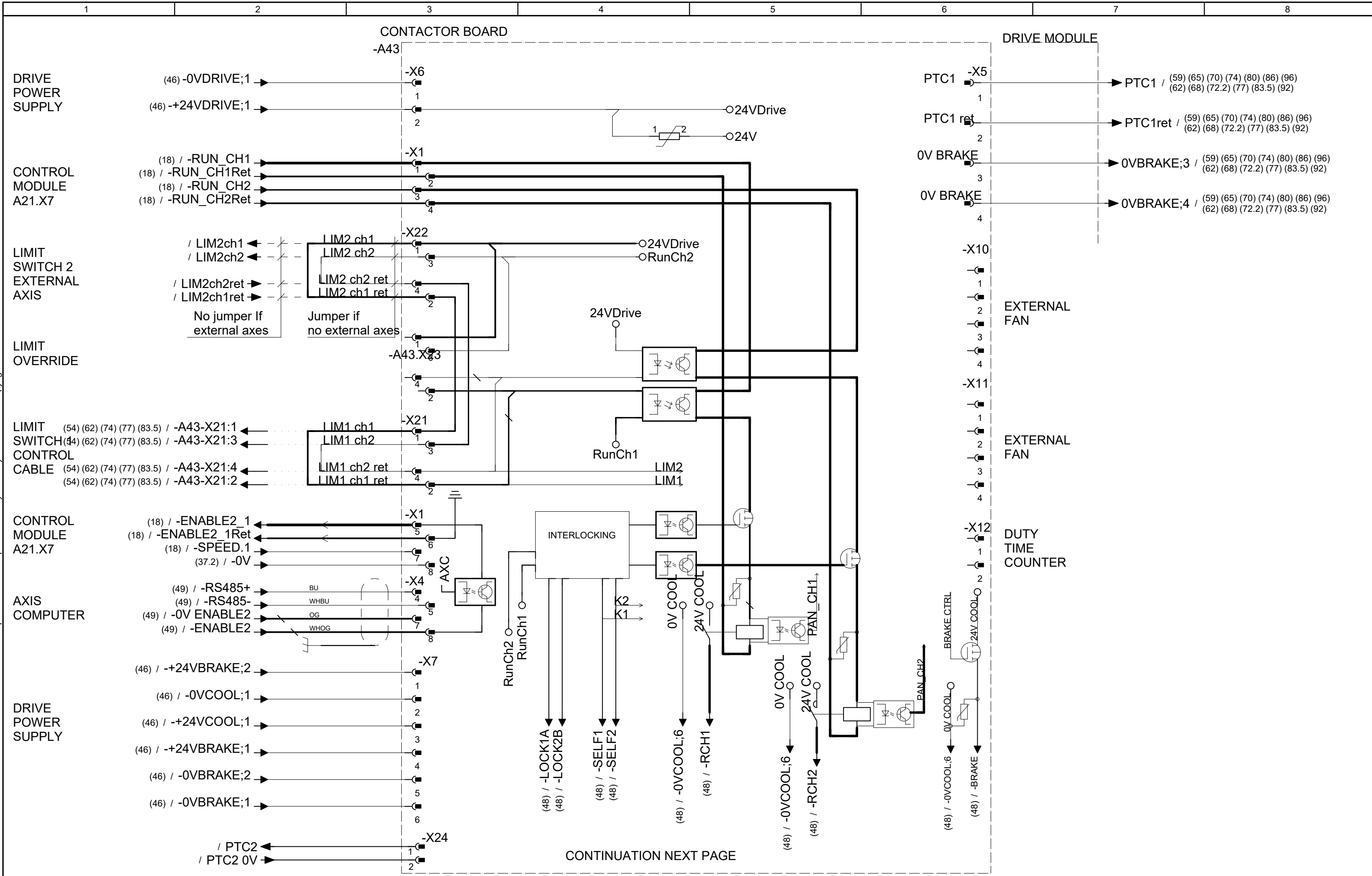
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POWER SUPPLY

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	Page 46 Next 47 Total 125



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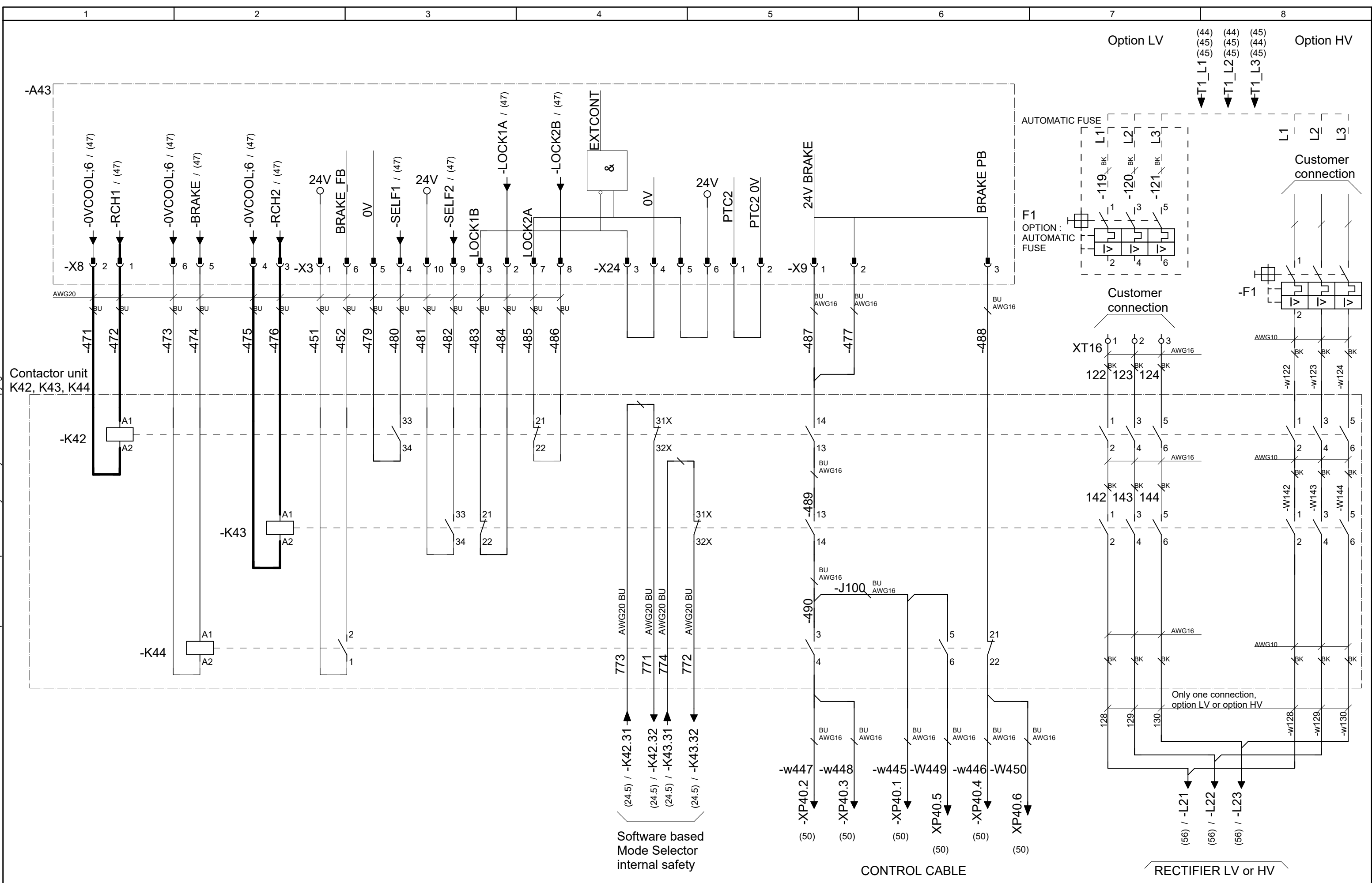
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CONTACTOR BOARD

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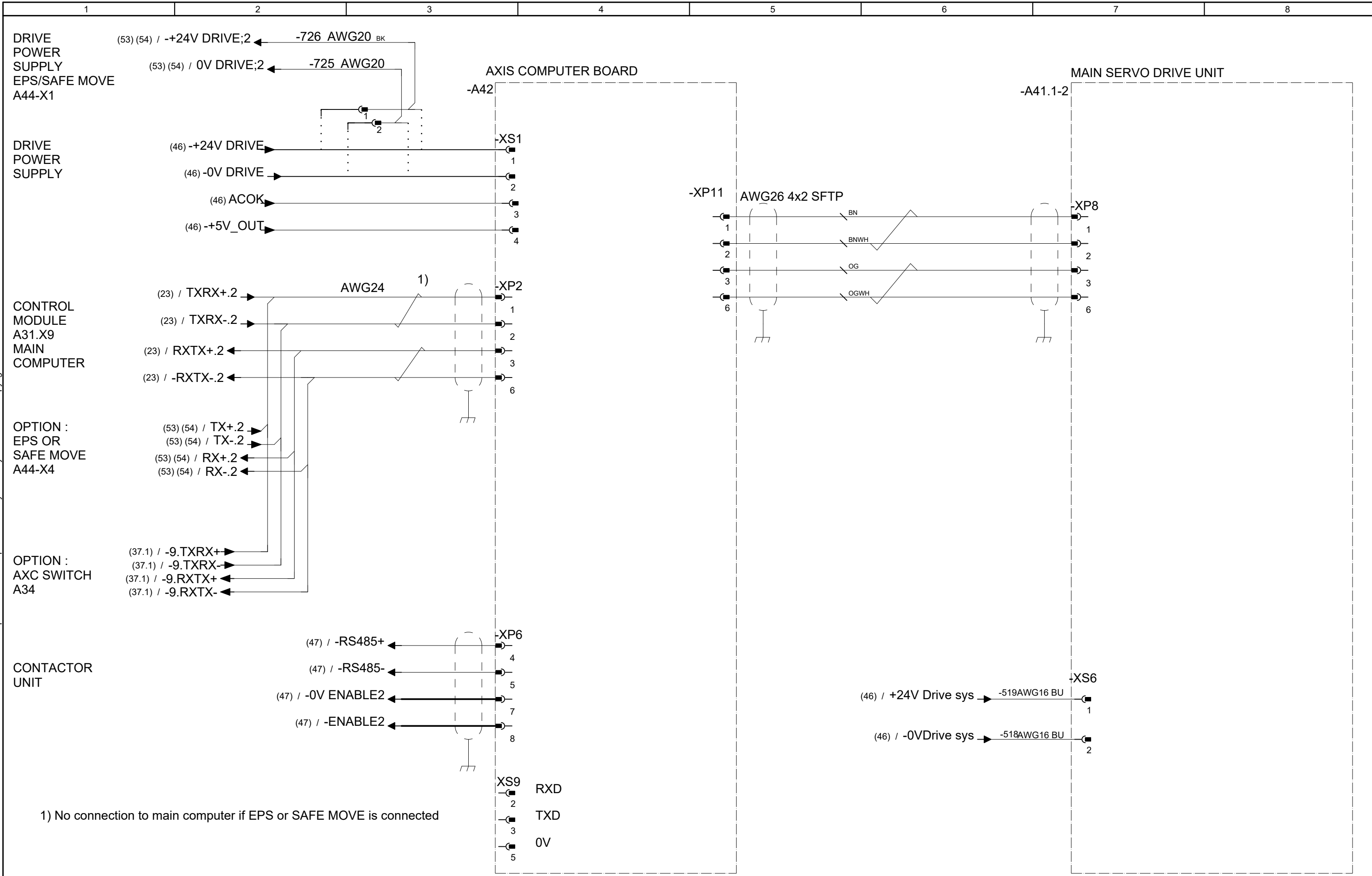
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Page 48
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 AXIS COMPUTER and MAIN SERVO DRIVE UNITS

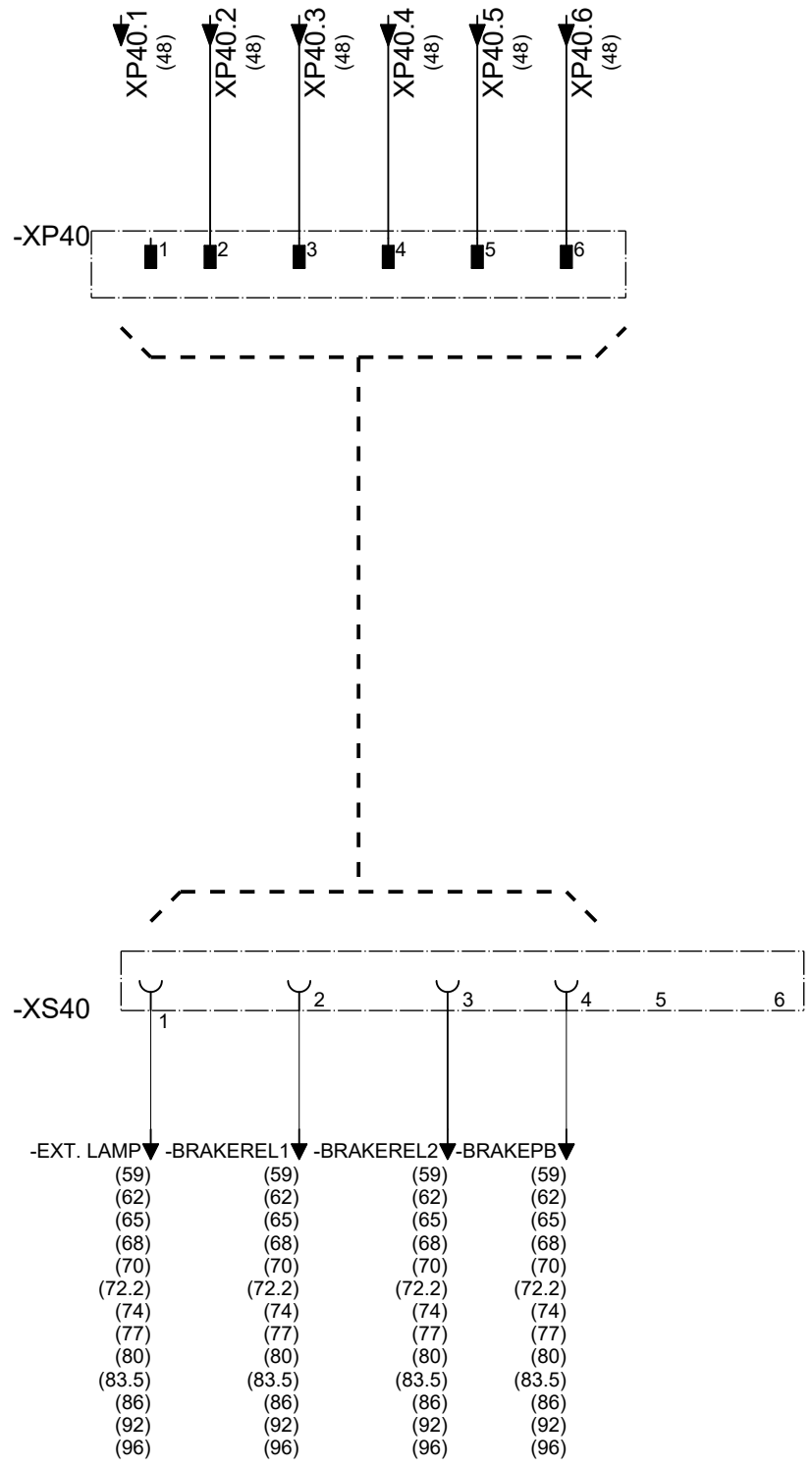
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Page 49
 Next 50
 Total 125



CONTROL CABLE

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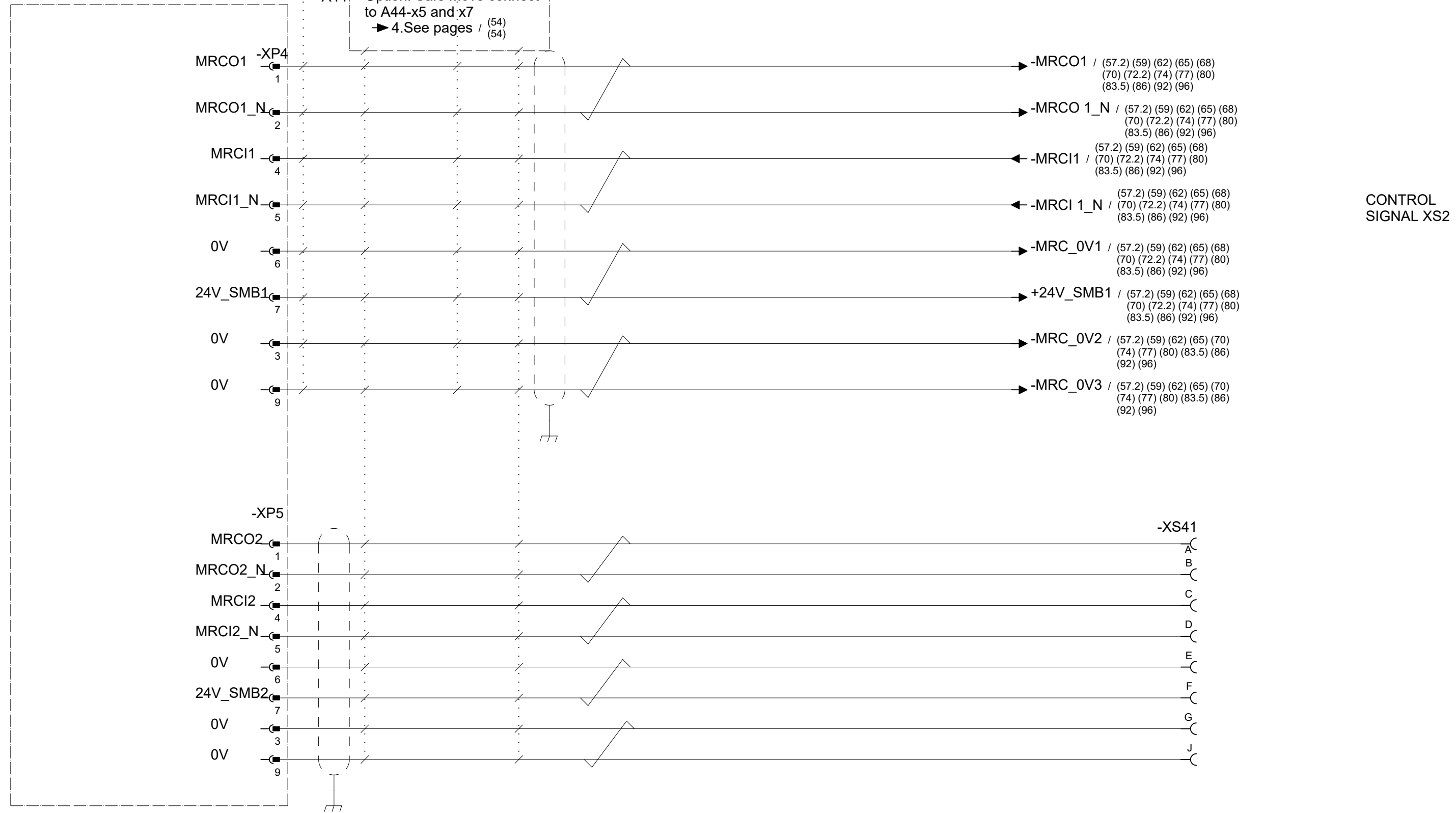
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Rev. Ind 14
Page 50
Next 51
Total 125

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A44
 (.3)
 (53.4)
 (54.3)
 (55.3)
 Option: EPS
 connect to
 A44-X5
 → 3. See pages / (53)

-A44
 Option: Safe Move connect
 to A44-x5 and x7
 → 4. See pages / (54)



CONTROL
 SIGNAL XS2

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 AXIS COMPUTER BOARD

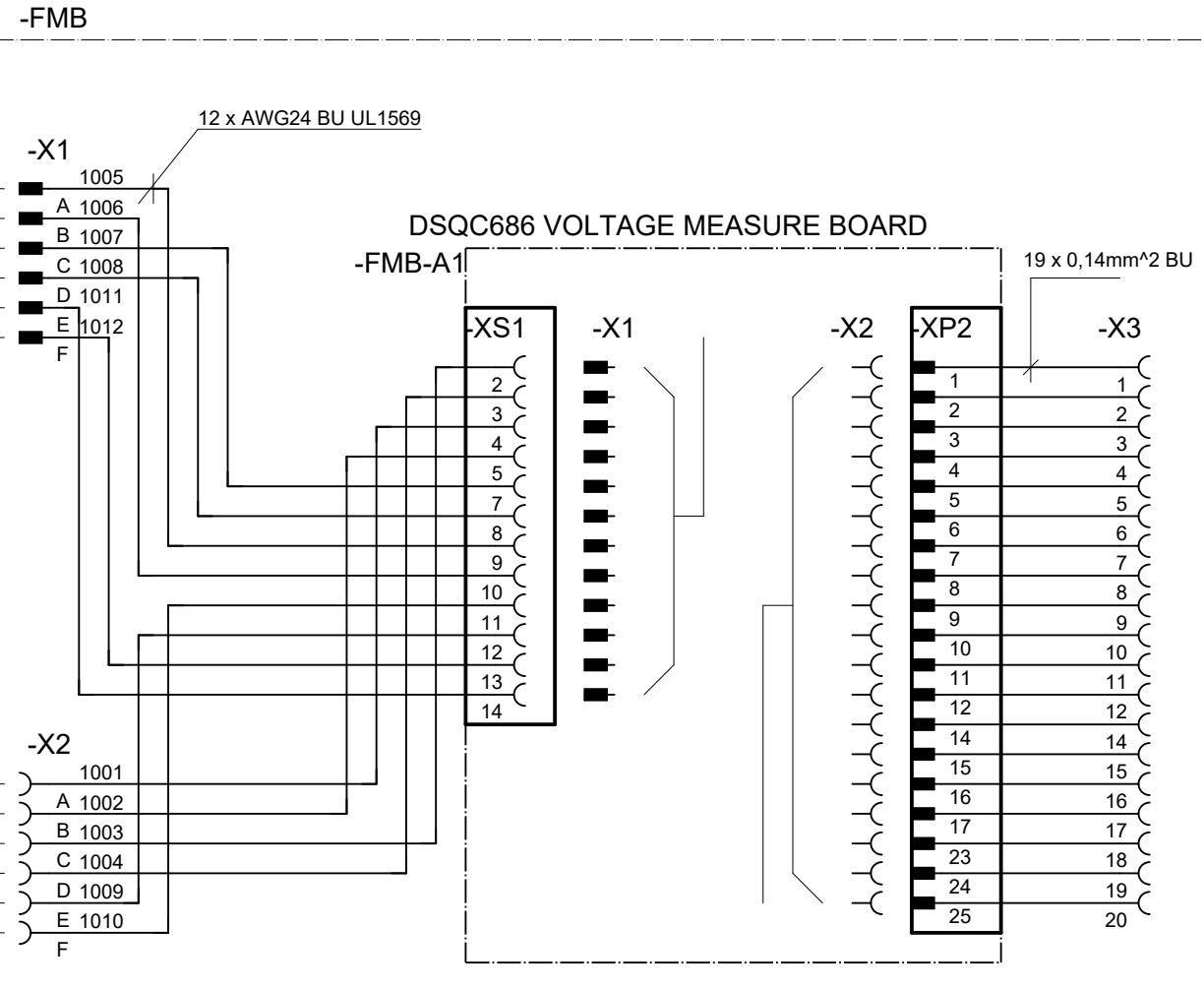
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Document no. 3HAC026871-020
 Rev. Ind 14
 Page 51
 Next 52
 Total 125

Option: 738-1
Graphic view at sheet

Sh.8, 8.5 XS41



- SDI_AXC
- SDI_AXC_N
- SDO_AXC
- SDO_AXC_N
- 0V
- 24V

Bridge connector FMB.X2

- SDO_SMB
- SDO_SMB_N
- SDI_SMB
- SDI_SMB_N
- 0V
- 24V

- AIN1_P
- AIN1_N
- AIN2_P
- AIN2_N
- AIN3_P
- AIN3_N
- AIN4_P
- AIN4_N
- AIN5_P
- AIN5_N
- AIN6_P
- AIN6_N
- AIN7_P
- AIN7_N
- SEN_DET_P
- SEN_DET_N
- 0V_AI_ANALOG
- 15V_AI
- +15V_AI

Sensor connection

Customer connection

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FORCE MEASUREMENT BOX

Status:
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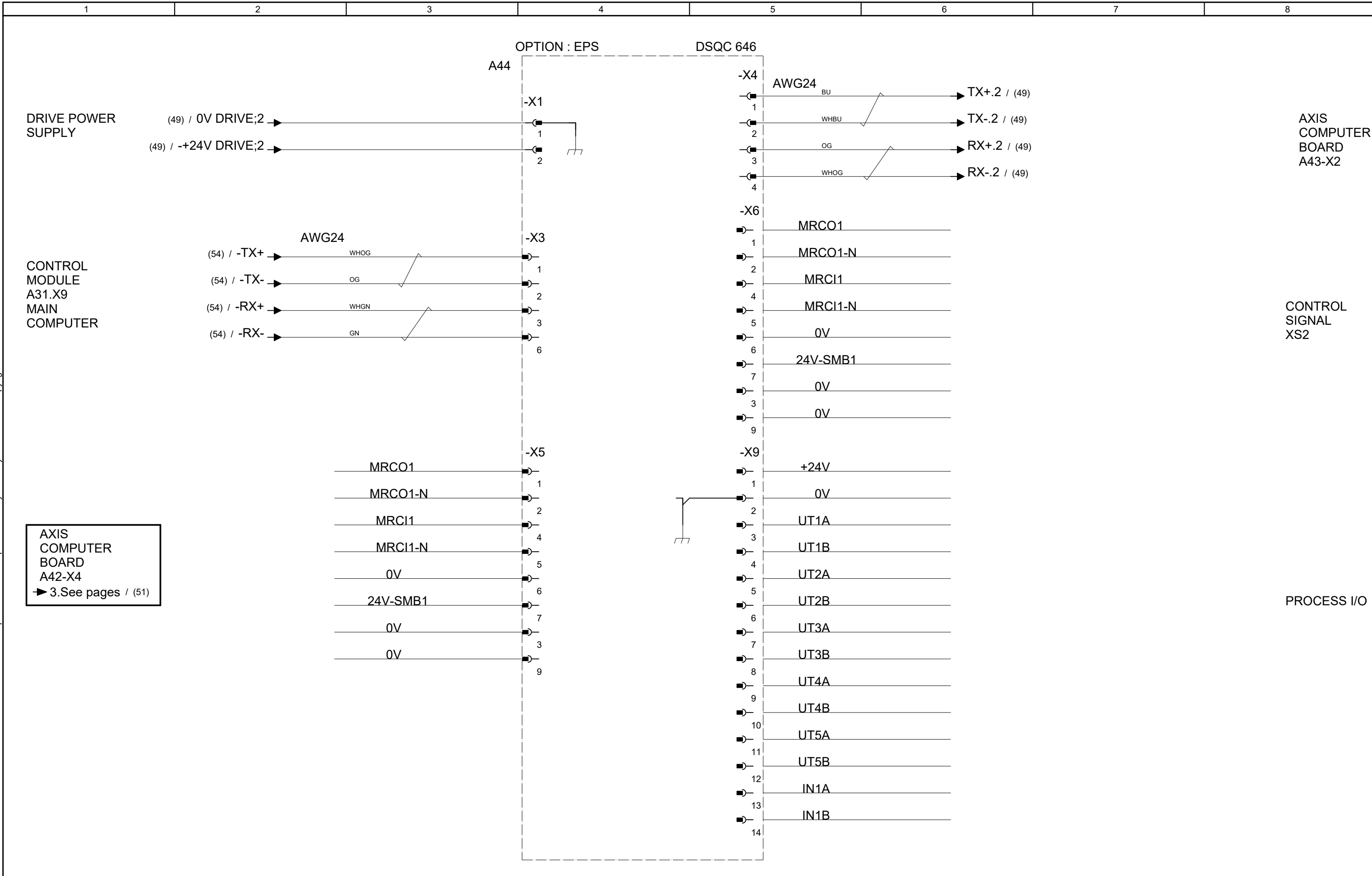
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Rev. Ind Page52
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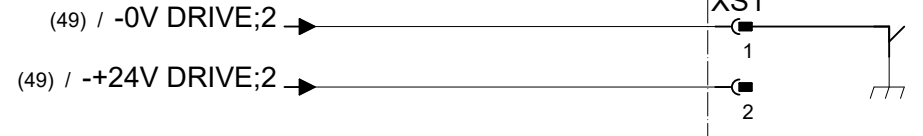
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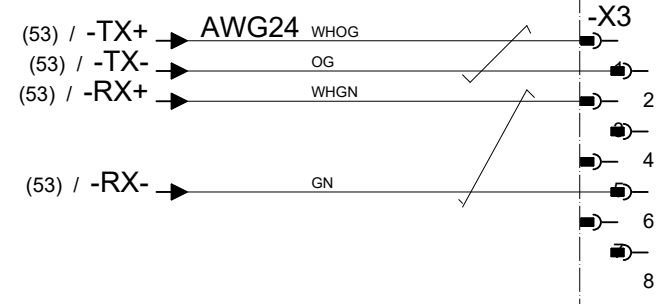
AXIS
 COMPUTER
 BOARD
 A42-X4
 ▶ 3. See pages / (51)

OPTION: SAFE MOVE DSQC647

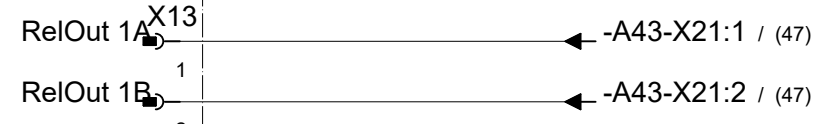
DRIVE POWER SUPPLY



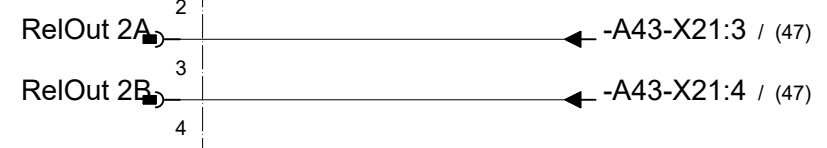
MAIN COMPUTER A31.X9 CONTROL MODULE



Relay output pair 1



Relay output pair 2



CONTACTOR UNIT X21

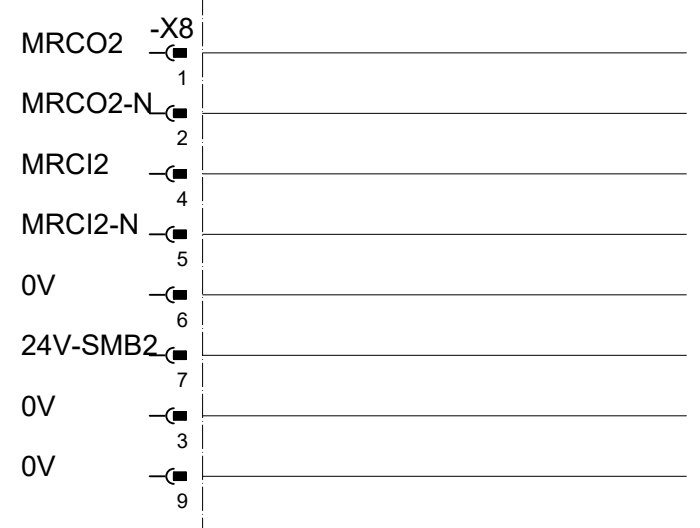
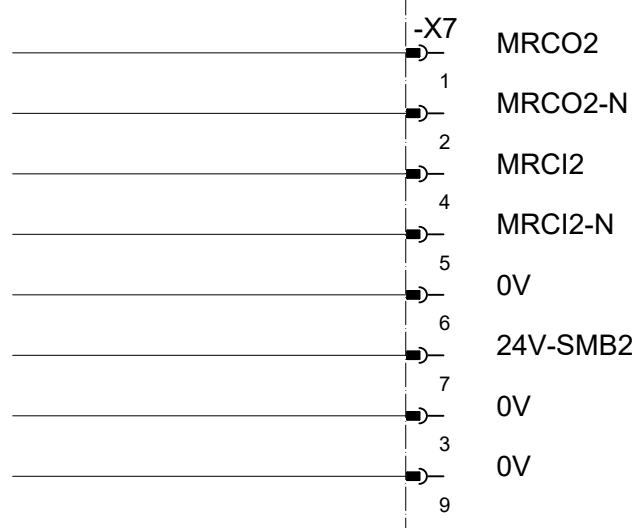
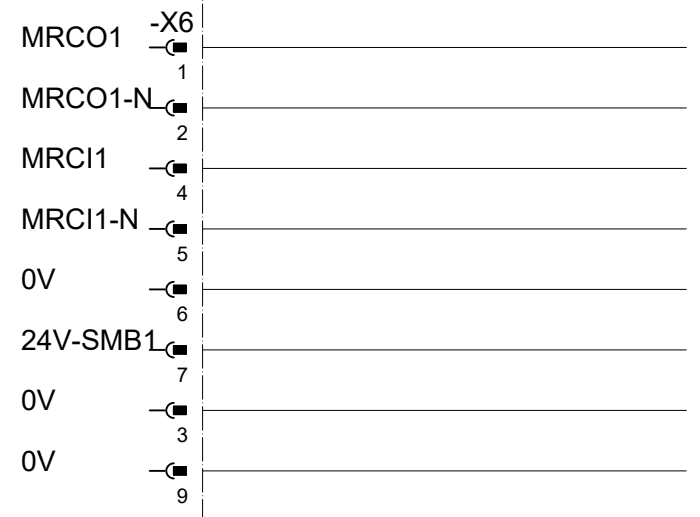
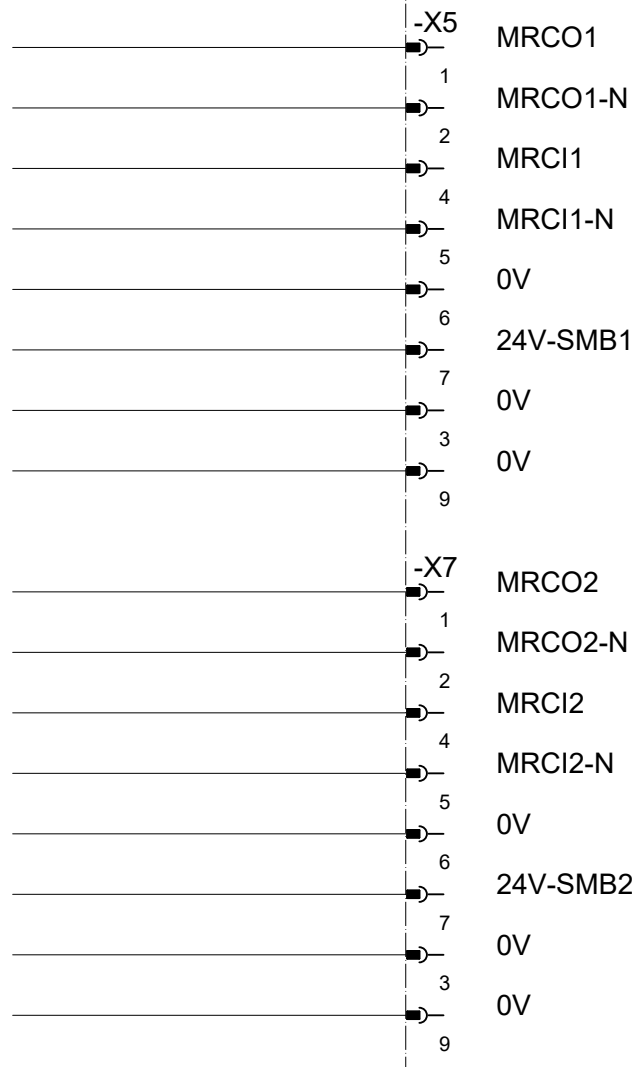
AXIS COMPUTER BOARD A42-X4
 ▶ 4. See pages / (51)

AXIS COMPUTER BOARD A42-X5
 ▶ 4. See pages / (51)

AXIS COMPUTER BOARD A42.X2

CONTROL SIGNAL XS2

EXT. AXIS SIGNAL XS41



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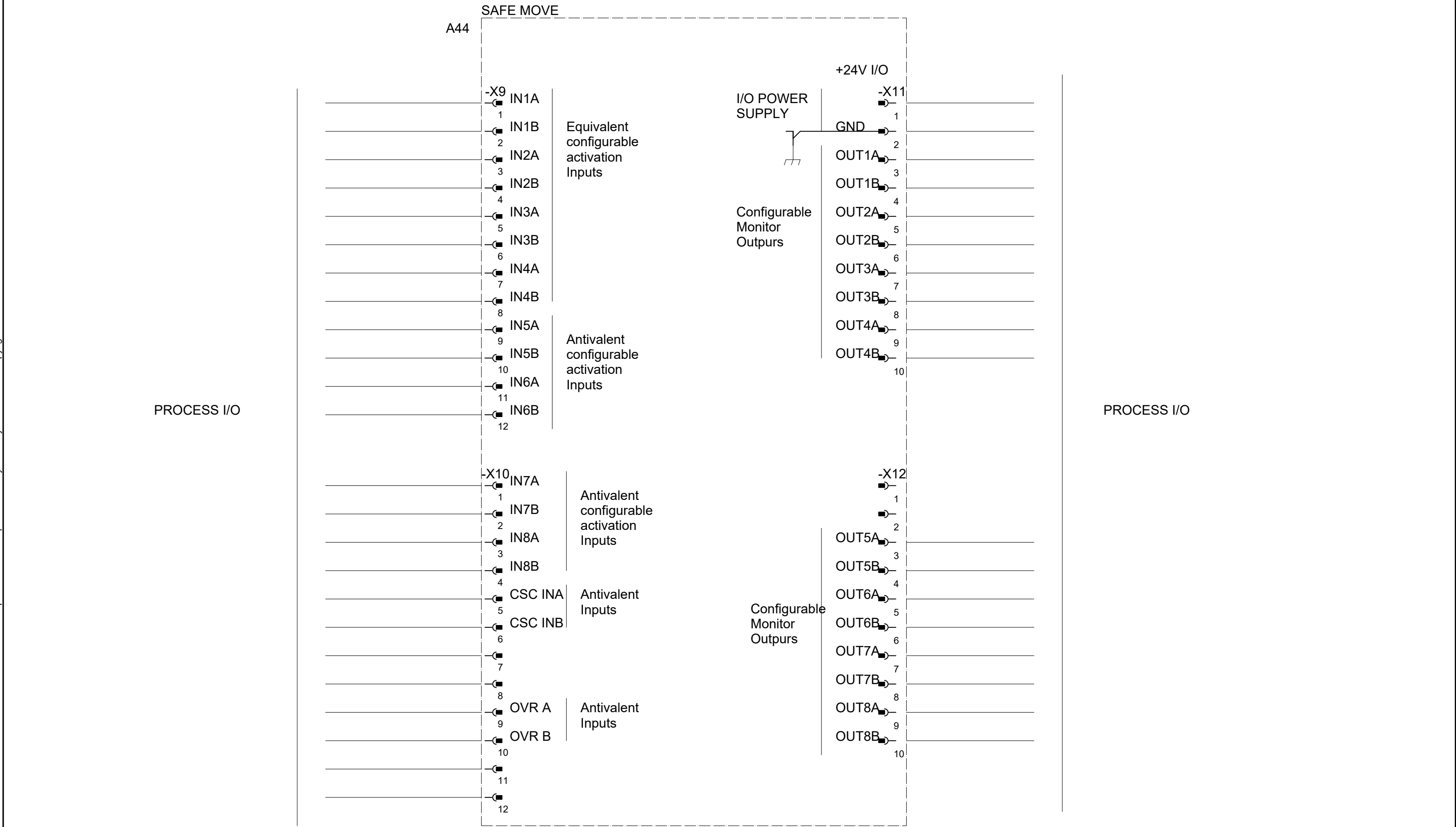
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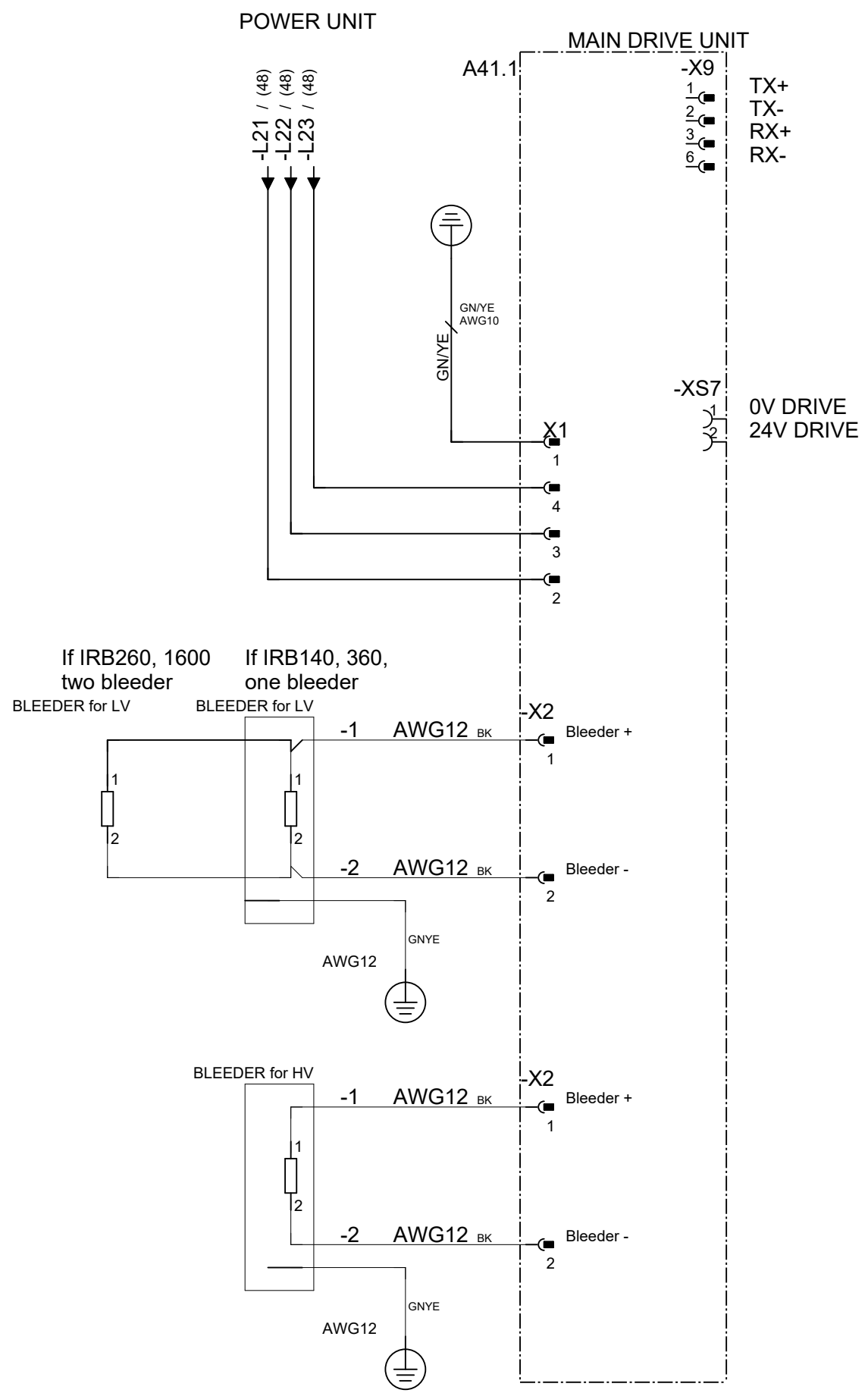
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Page 55
Next 56
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MAIN DRIVE UNIT

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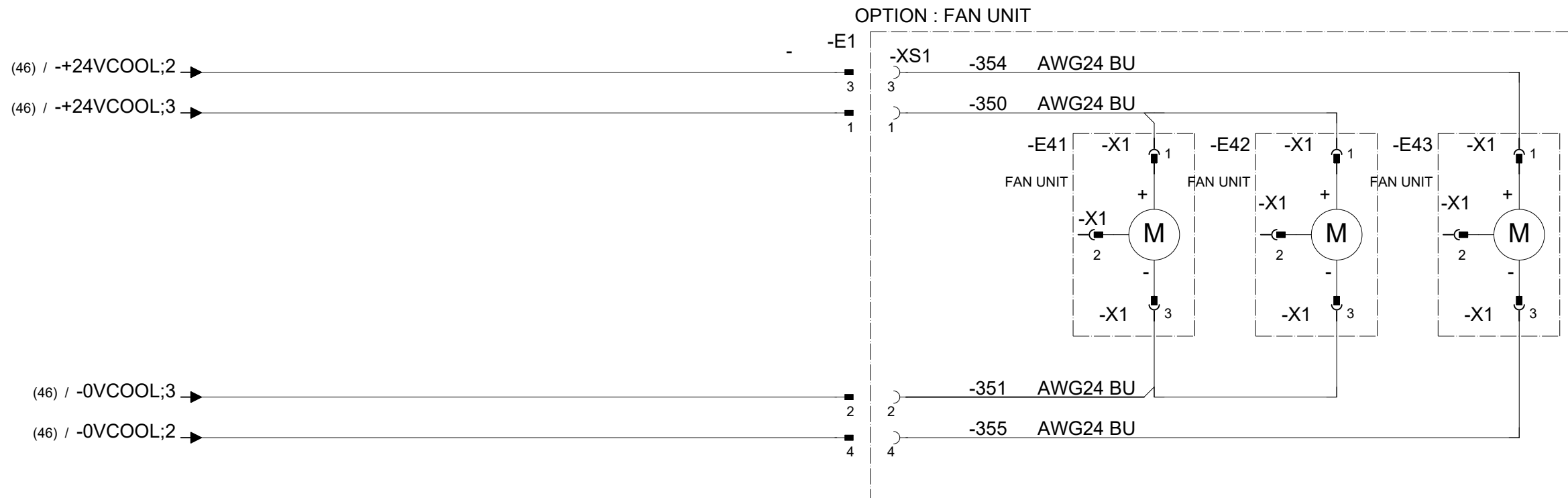
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14

Page 56
Next 57
Total 125

DRIVE POWER SUPPLY



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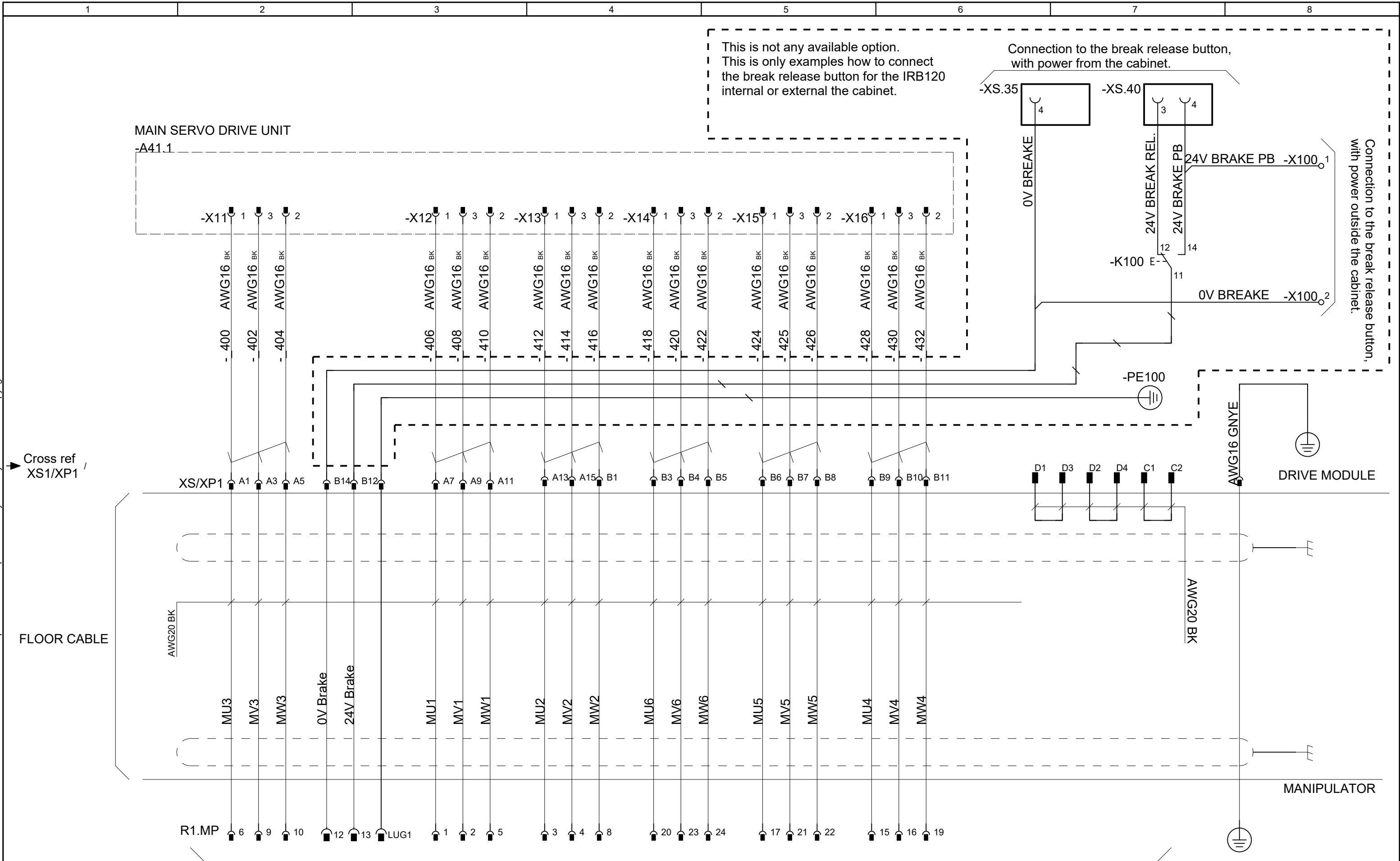
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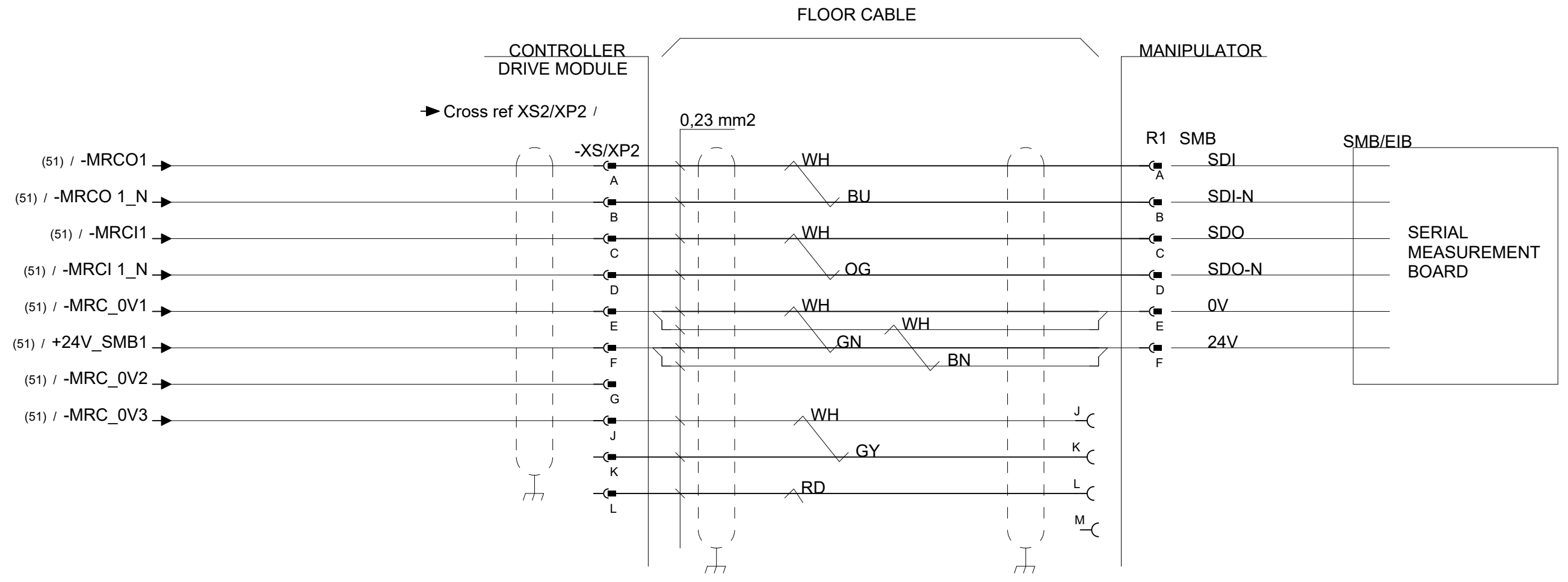
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14 Next 57.1
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				3HAC026871-020		14
				Page 57.1		Next 57.2
				Total 125		



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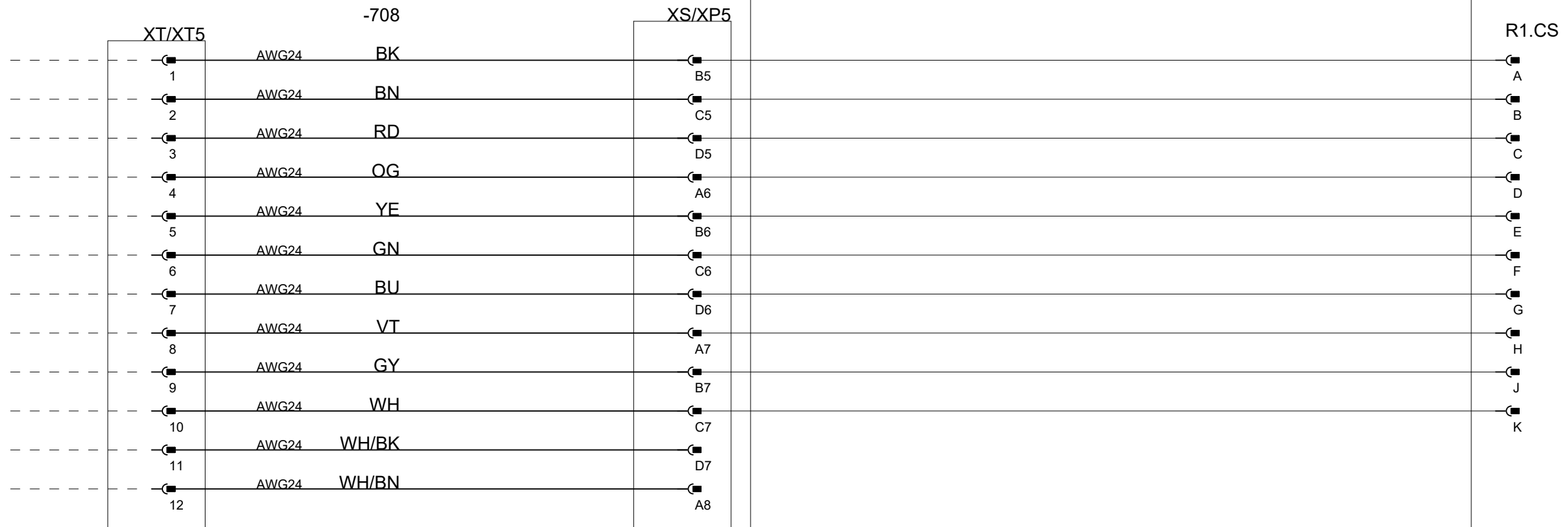
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FLOOR CABLE supplied by the customer

Customer Connection

CONTROLLER

MANIPULATOR



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CUSTOMER SIGNALS
IRB 120

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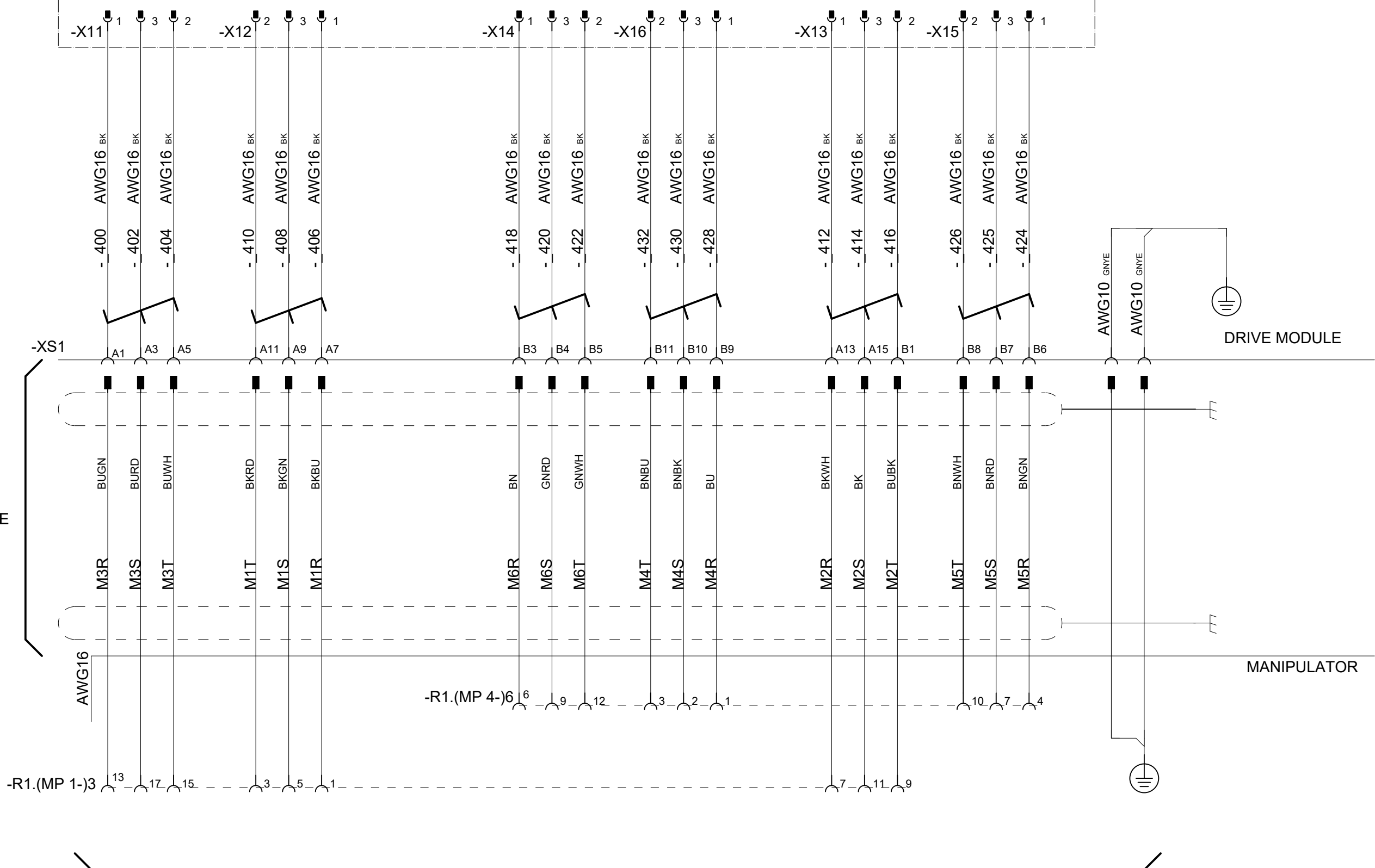
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Rev. Ind	Page 57.3
14	Next 58
	Total 125

Cabinet module

MAIN SERVO DRIVE UNIT

-A41.1



FLOOR CABLE

DRIVE MODULE

MANIPULATOR

According to Manipulator circuit diagram 3HAC6816-3

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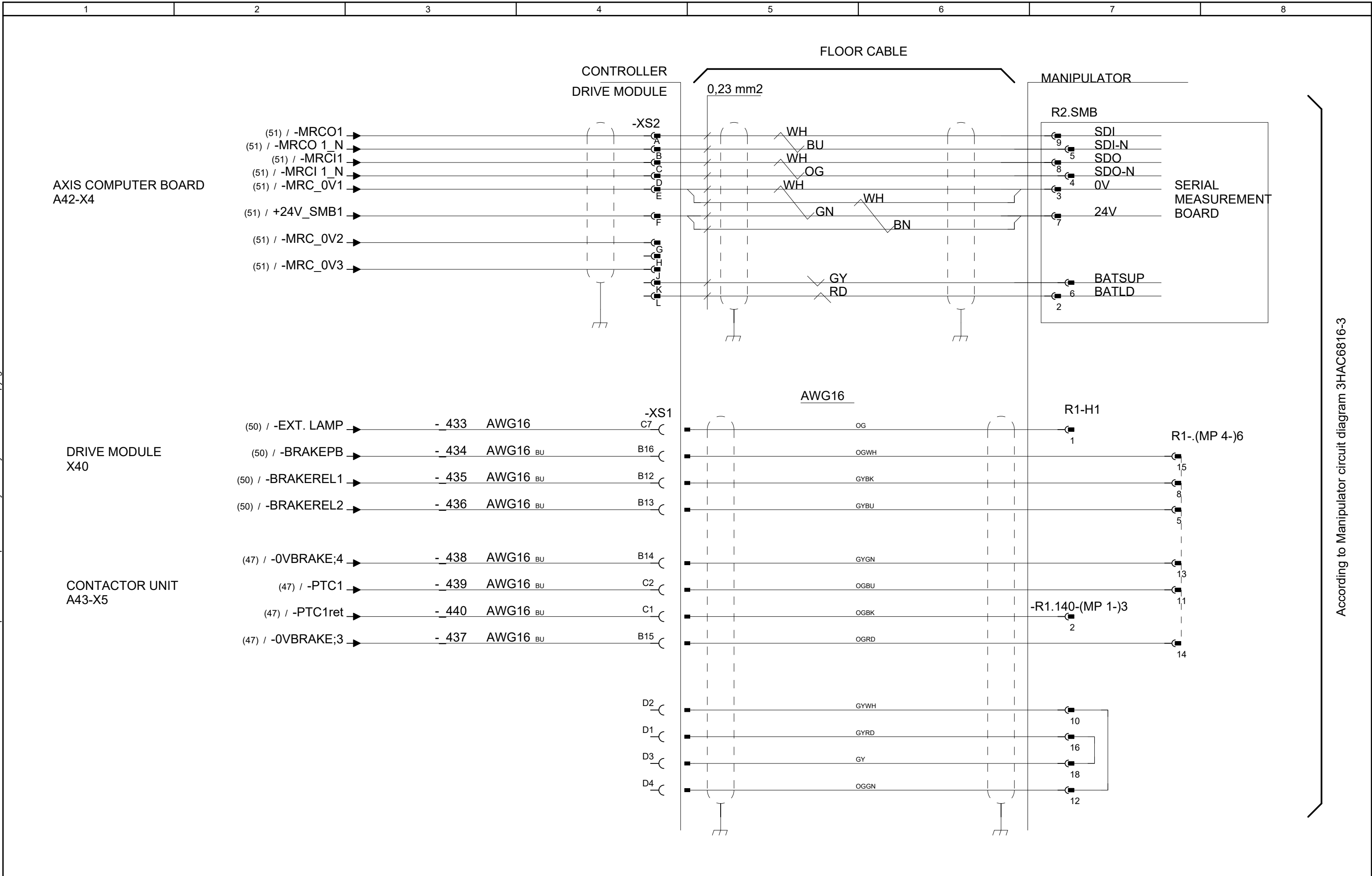
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SERVO DRIVE SYSTEM
IRB 140

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IRB 140

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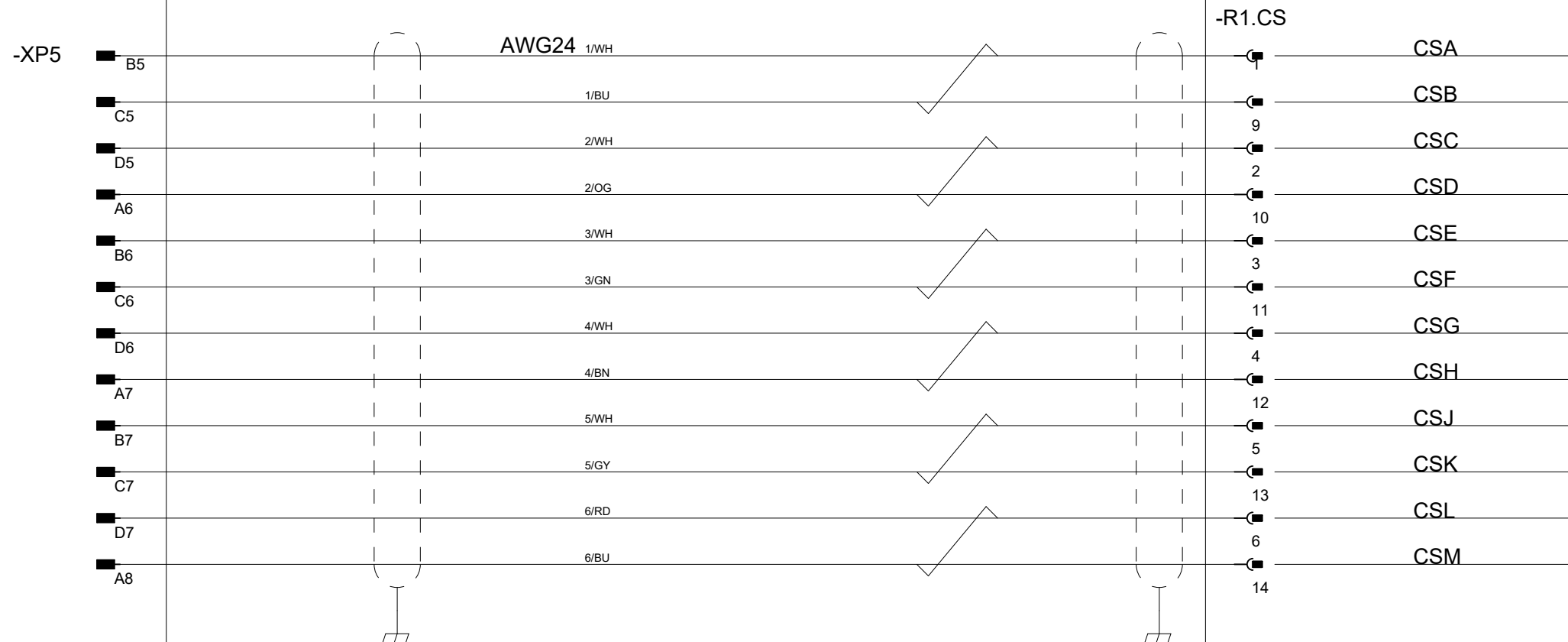
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14

Page 59
Next 60
Total 125

CONTROL MODULE

MANIPULATOR
IRB 140

CUSTOMER
CONNECTIONS



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 CUSTOMER SIGNAL
 IRB 140

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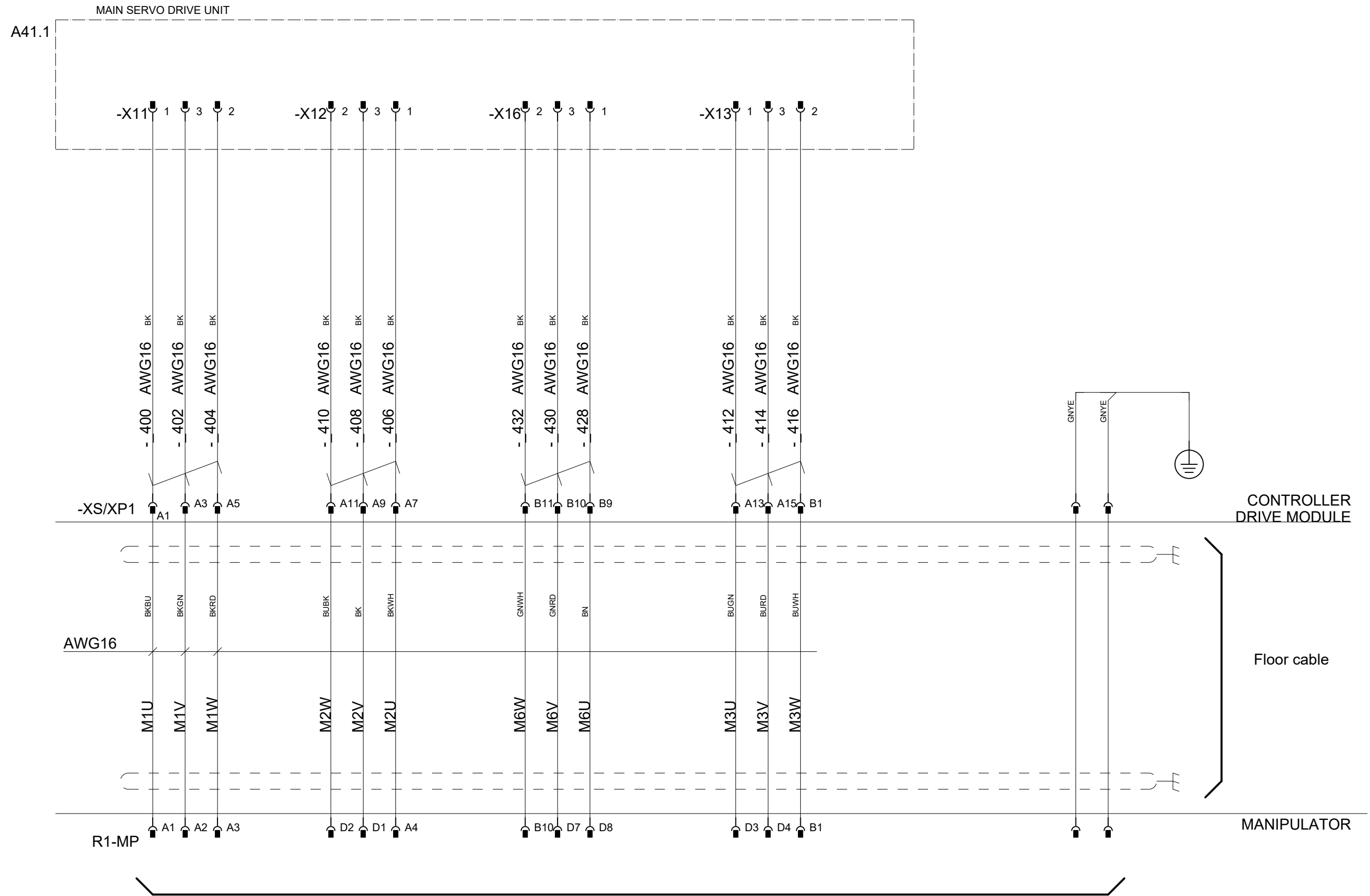
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Rev. Ind 14
 Page 60
 Next 61
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IRB 260 cabinet module



According to Manipulator circuit diagram 3HAC025611-001

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SERVO DRIVE UNIT
IRB 260

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 61 Next 62 Total 125

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DRIVE MODULE

MANIPULATOR

AXIS COMPUTER BOARD
A42-X4

(51) / -MRCO1
 (51) / -MRCO 1_N
 (51) / -MRCI1
 (51) / -MRCI 1_N
 (51) / -MRC_0V1
 (51) / +24V_SMB1
 (51) / -MRC_0V2
 (51) / -MRC_0V3

-XS/XP2
 A
 B
 C
 D
 E
 F
 G
 H
 J
 K
 L

0,23mm²

WH BU WH OG
 WH WH GN BN
 WH RD GY

R1-SMB

A SDI
 B SDI-N
 C SDO
 D SDO-N
 E 0V
 F 24V
 J 0V
 K BATT+
 L BATLD
 M Keypin

SERIAL MEASUREMENT BOARD

AWG16

DRIVE MODULE
X40

(50) -EXT.LAMP - 433 AWG16 BU
 (50) -BRAKEPB - 434 AWG16 BU
 (50) -BRAKEREL1 - 435 AWG16 BU
 (50) -BRAKEREL2 - 436 AWG16 BU

-XS1/XP1

C7
 B16
 B12
 B13

-R1.MP

C7
 B8
 C9
 C8

CONTACTOR UNIT
A43-X5

(47) / -0VBRAKE;4 - 438 AWG16 BU
 (47) / -PTC1 - 439 AWG16 BU
 (47) / -PTC1ret - 440 AWG16 BU
 (47) / -0VBRAKE;3 - 437 AWG16 BU

B14
 C2
 C1
 B15

C10
 B9
 B2
 B7

CONTACTOR UNIT
A43-X21

(47) / -A43-X21:2 441 AWG16 BU
 (47) / -A43-X21:4 442 AWG16 BU
 (47) / -A43-X21:3 443 AWG16 BU
 (47) / -A43-X21:1 444 AWG16 BU

D2
 D1
 D3
 D4

B3
 B4
 C2
 C1

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 CONTROL CABLE
 IRB 260

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 Rev. Ind 14
 Page 62
 Next 63
 Total 125

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CONTROL MODULE

MANIPULATOR

Customer Connection

-XS/XP5

AWG18 BU

-R1.CS

CPA

A1

RD

A1

CPB

B1

GN

B1

CPC

C1

YE

C1

CPD

D1

WH

D1

CPE

A2

BK

A2

CPF

B2

BN

B2

CPJ

C2

VT

C2

CPK

D2

OG

D2

CPL

A3

PK

A3

B3

TQ

B3

C3

GY

C3

D3

D3

AWG24

CSA

B5

1/WH

B5

CSB

C5

1/BU

C5

CSC

D5

2/WH

D5

CSD

A6

2/OG

A6

CSE

B6

3/WH

B6

CSF

C6

3/GN

C6

CSG

D6

4/WH

D6

CSH

A7

4/BN

A7

CSJ

B7

5/WH

B7

CSK

C7

5/GY

C7

CSL

D7

6/RD

D7

CSM

A8

6/BU

A8

B8

7/RD

B8

CSN

C8

7/OG

C8

CSP

D8

8/RD

D8

CSR

A9

8/GN

A9

CSS

B9

9/RD

B9

CST

C9

9/BN

C9

CSU

D9

10/RD

D9

CSV

A10

10/GY

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CSW

B10

11/BK

B10

CSX

C10

11/BU

C10

CSY

D10

12/BK

D10

CSZ

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CUSTOMER POWER/SIGNAL
IRB 260

Status:
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Plant: =
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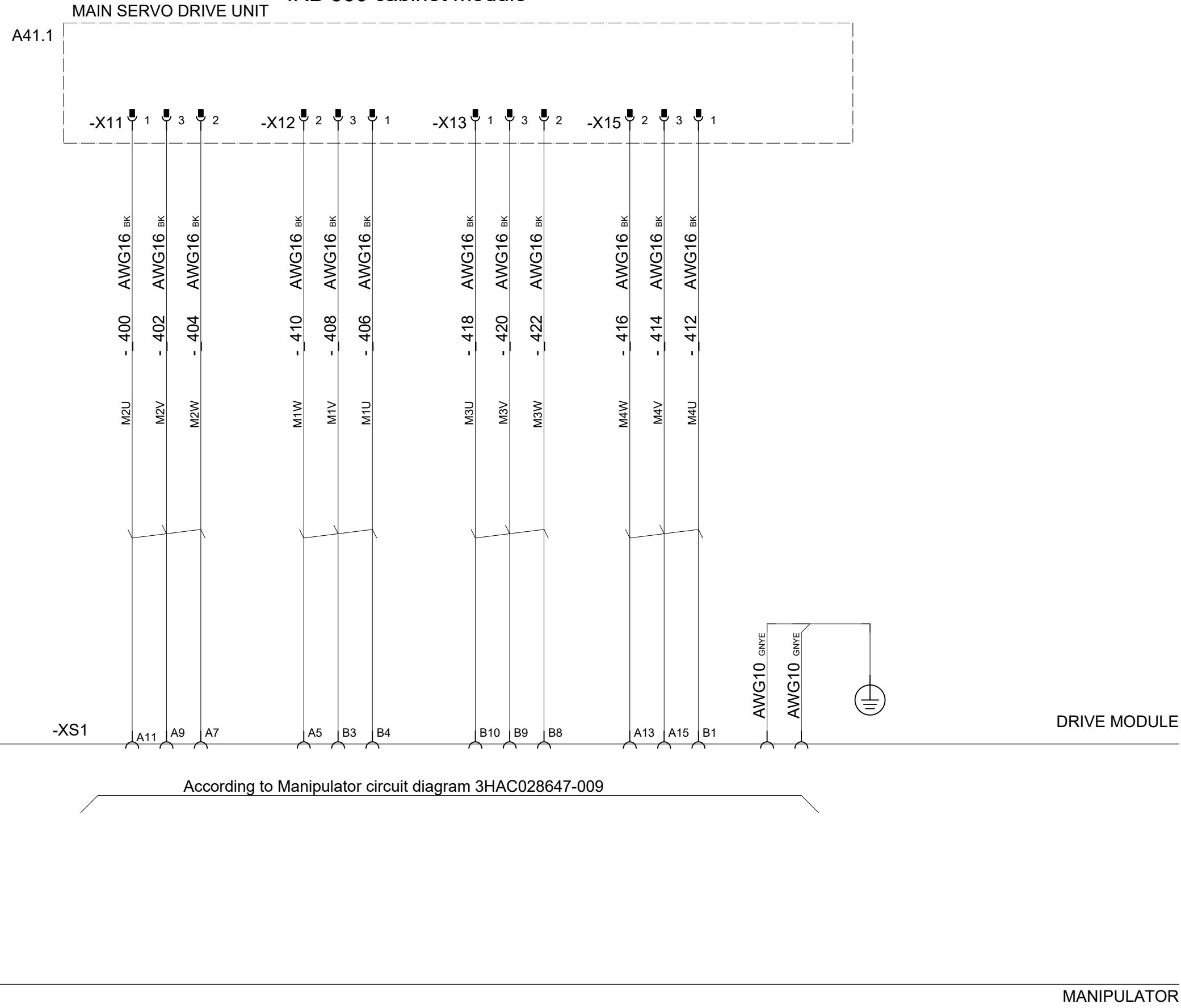
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14

Page 63
Next 64
Total 125

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IRB 360 cabinet module



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PMC DESIGN 14 Rel: 23D
SERVO DRIVE UNITS
IRB 360

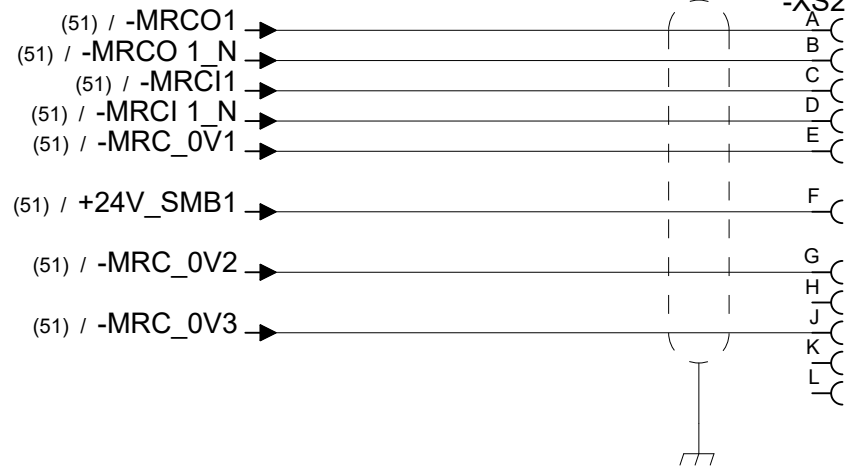
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	Page 64 Next 65 Total 125

FLOOR CABLE

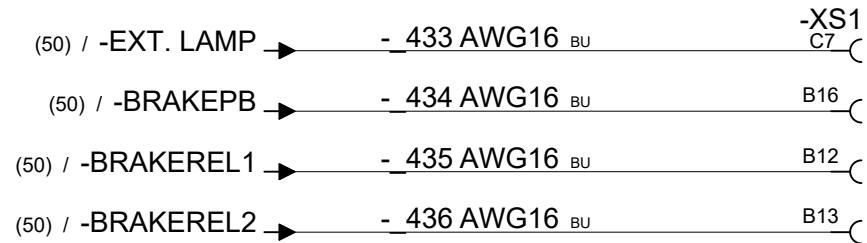
CONTROLLER
DRIVE MODULE

MANIPULATOR
IRB360

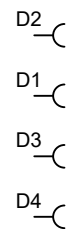
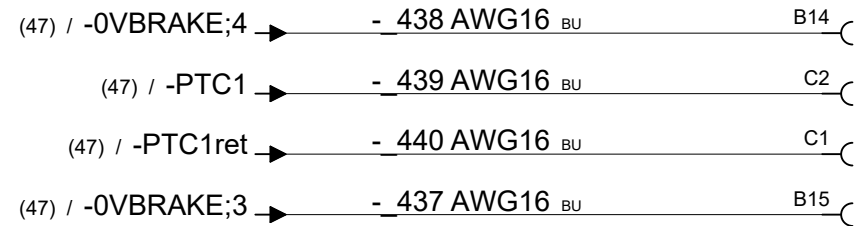
AXIS COMPUTER BOARD
A42-X4



DRIVE MODULE
X40



CONTACTOR UNIT
A43-X5



According to Manipulator circuit diagram 3HAC028647-009

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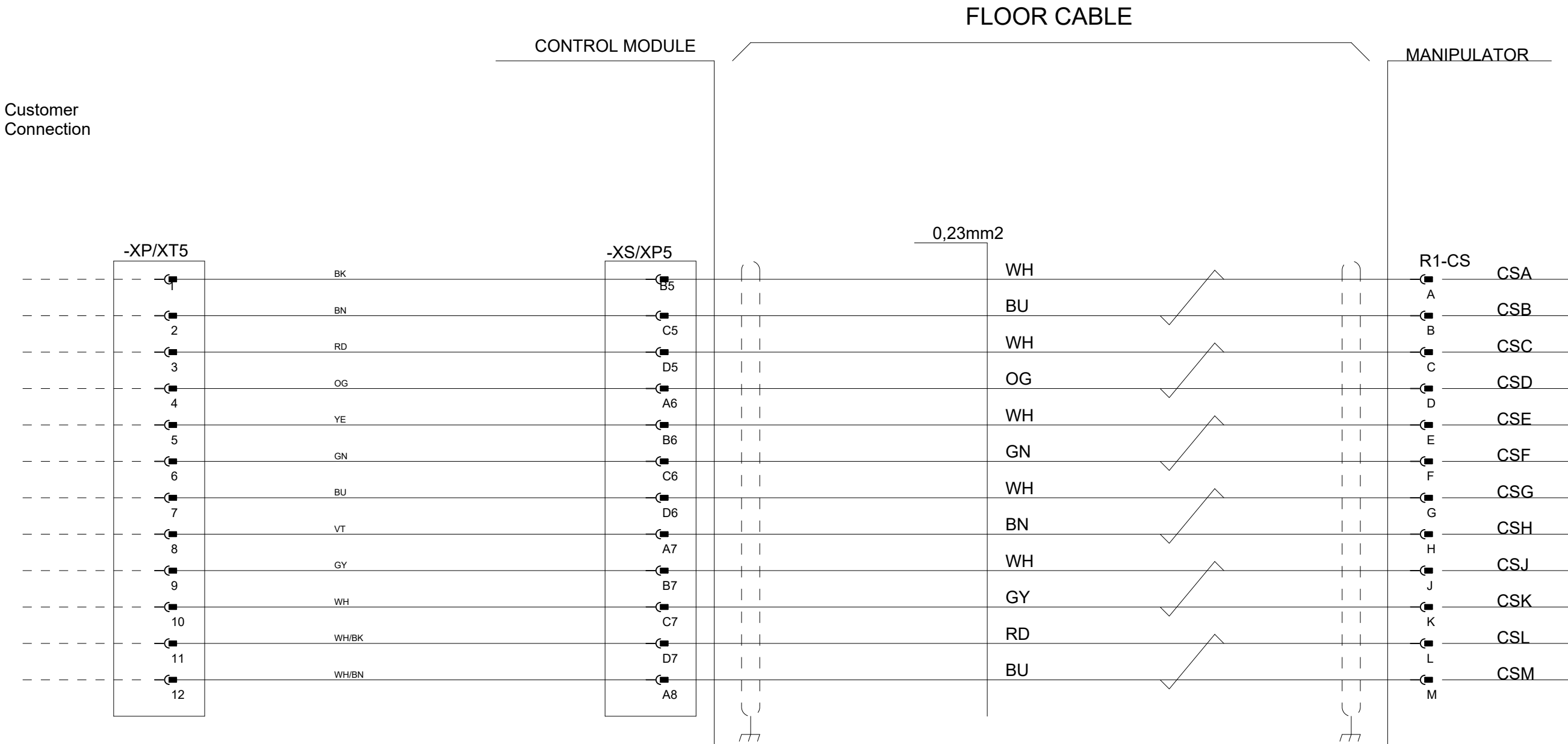
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CONTROL CABLE
IRB 360

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Rev. Ind	Page 65
14	Next 66
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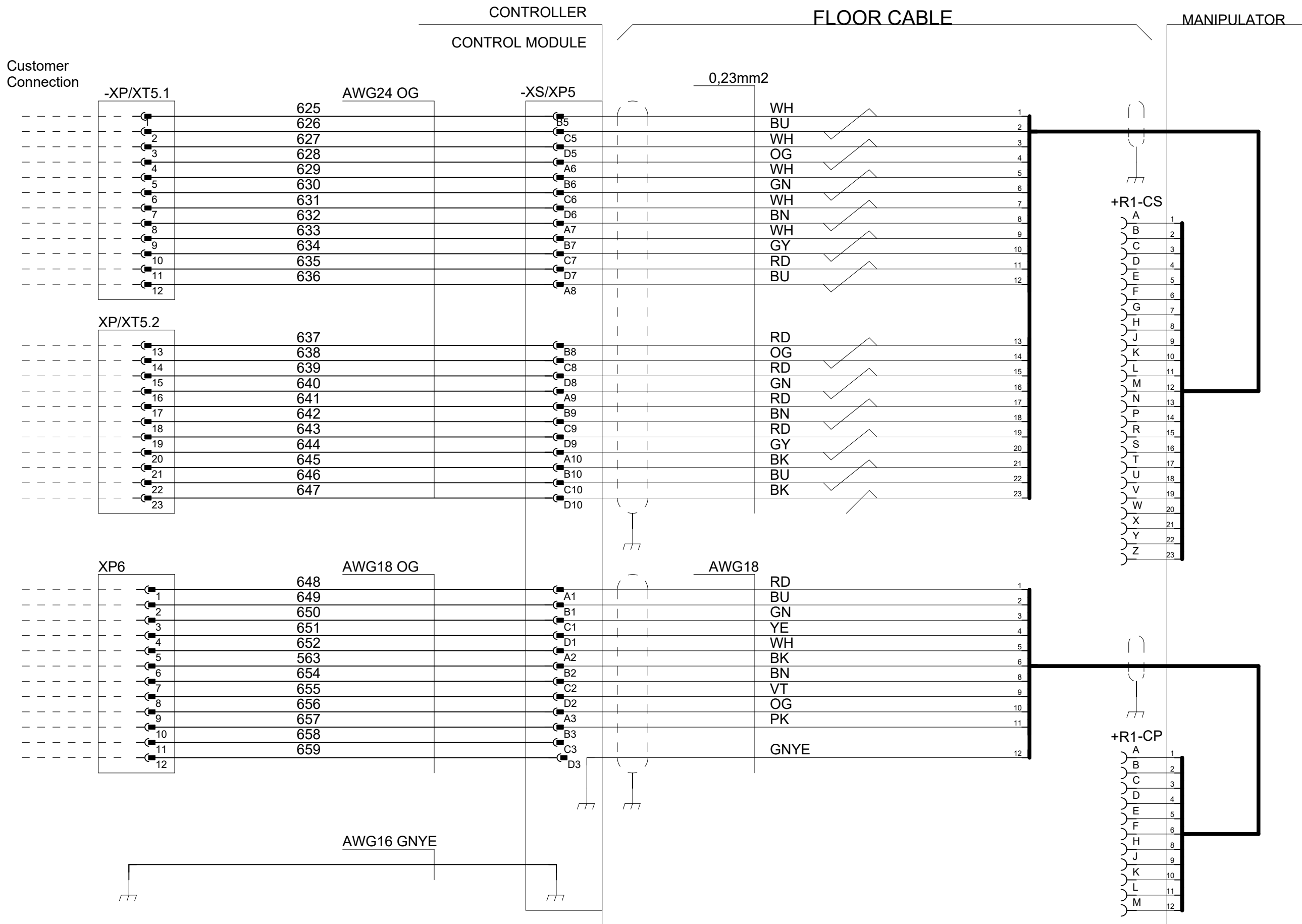
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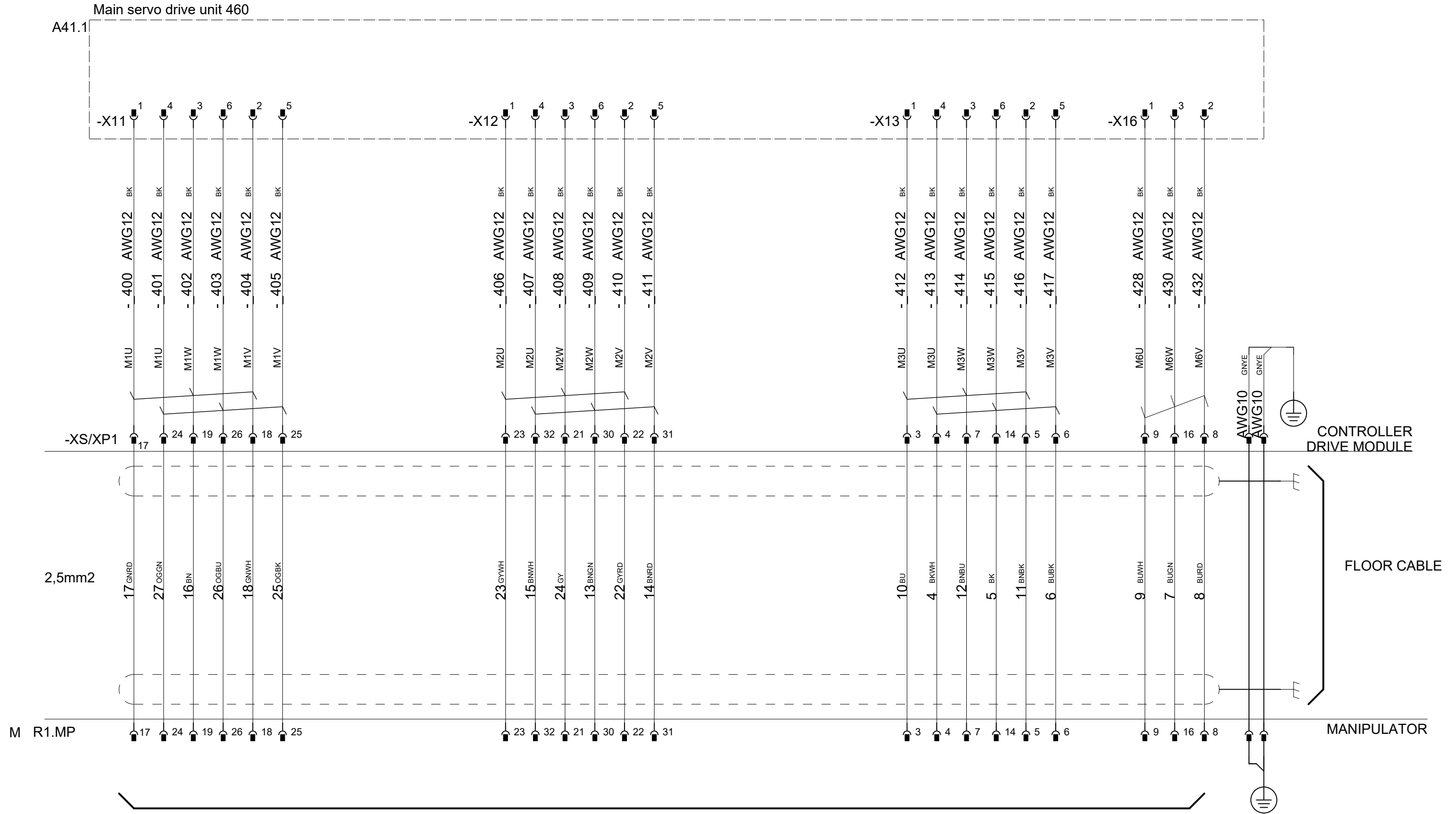
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SINGLE CABINET
IRB 360

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Rev. Ind 14
Page 66.1
Next 67
Total 125

IRB 460 cabinet module

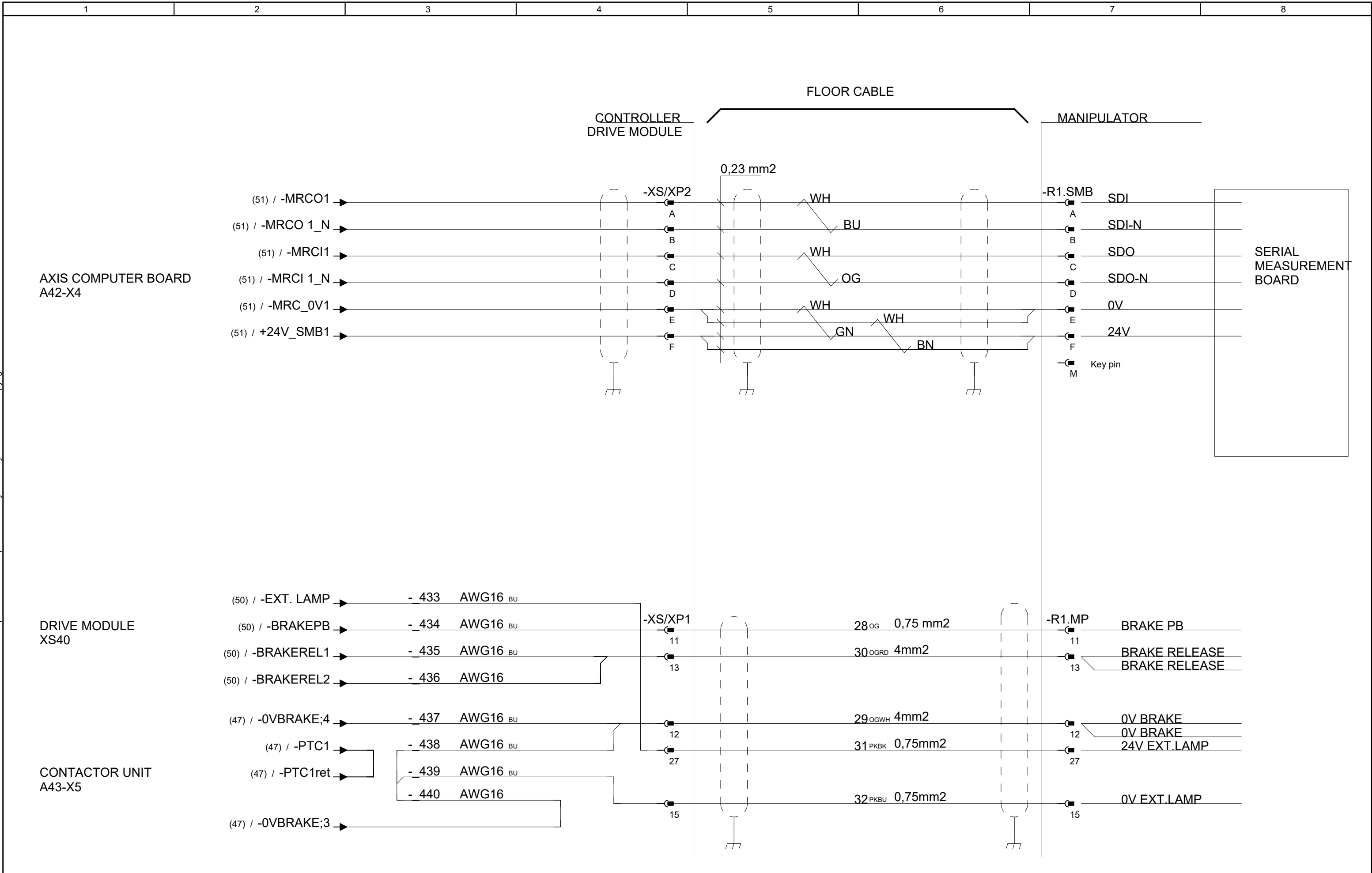


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							Next 68
							Total 125

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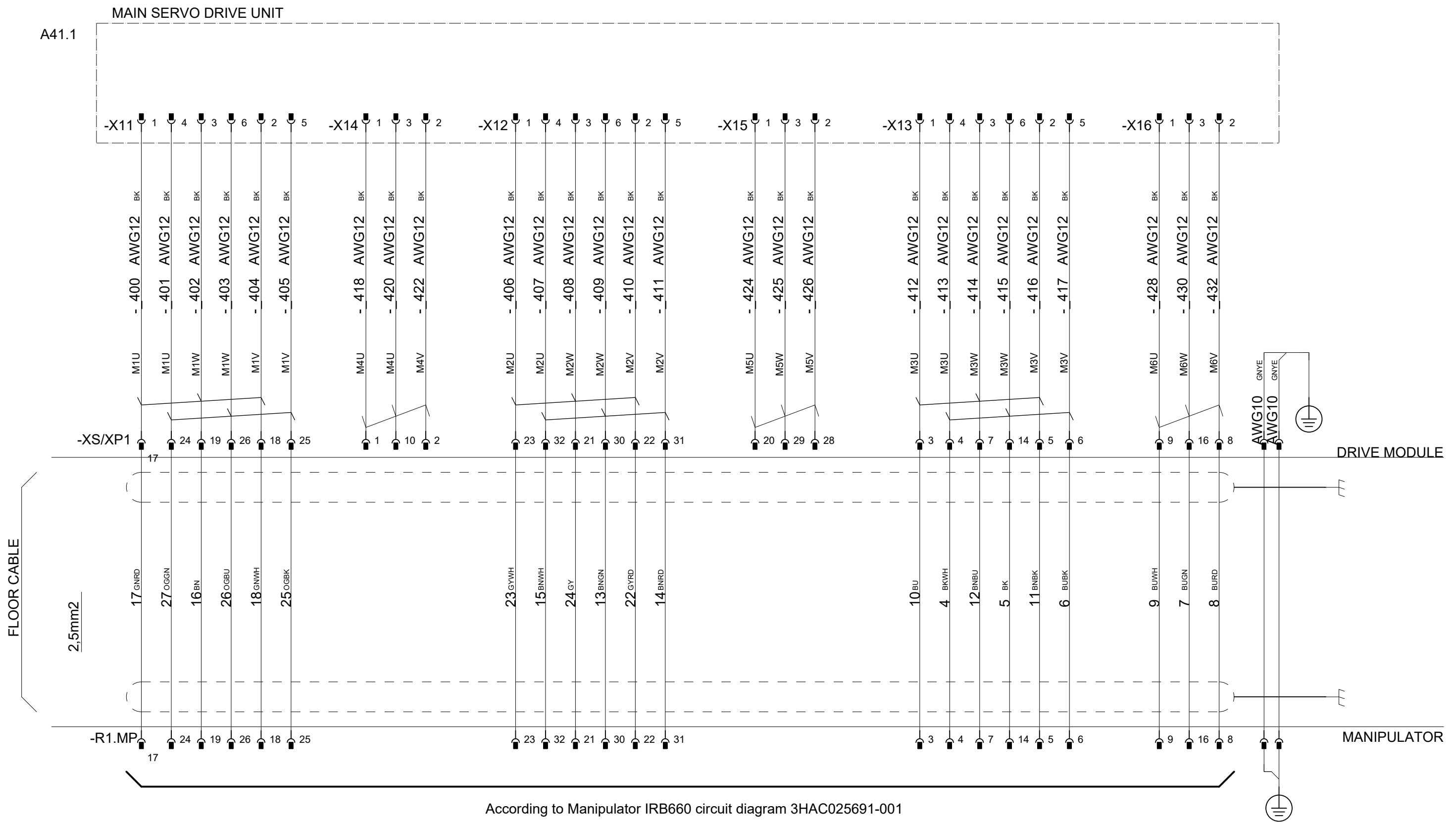


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 PMC DESIGN 14 Rel: 23D
 CONTROL CABLE
 IRB 460

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 Plant: =
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 Next 69
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SERVO DRIVE SYSTEM
IRB 660, 760

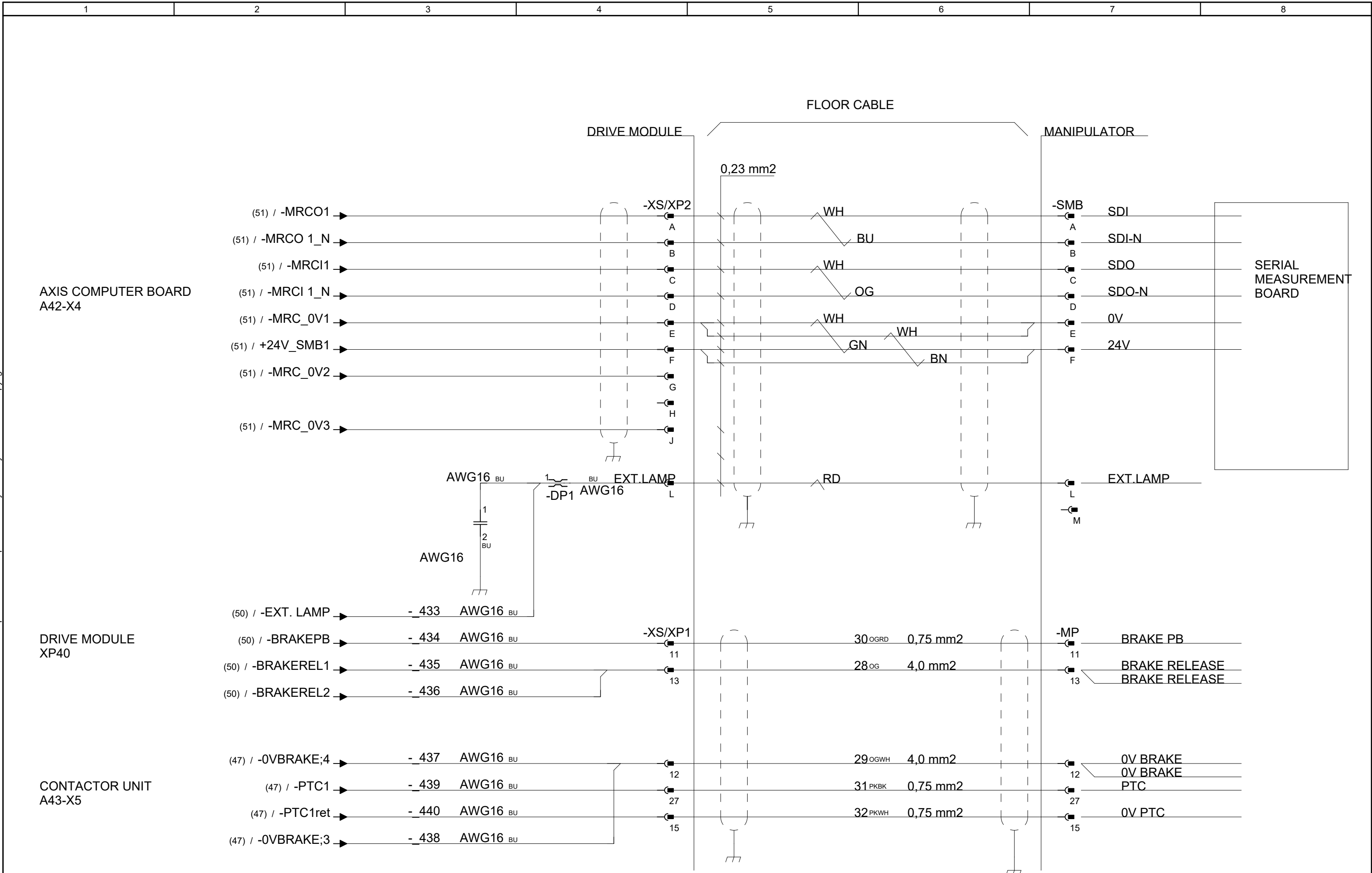
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14	Next 70
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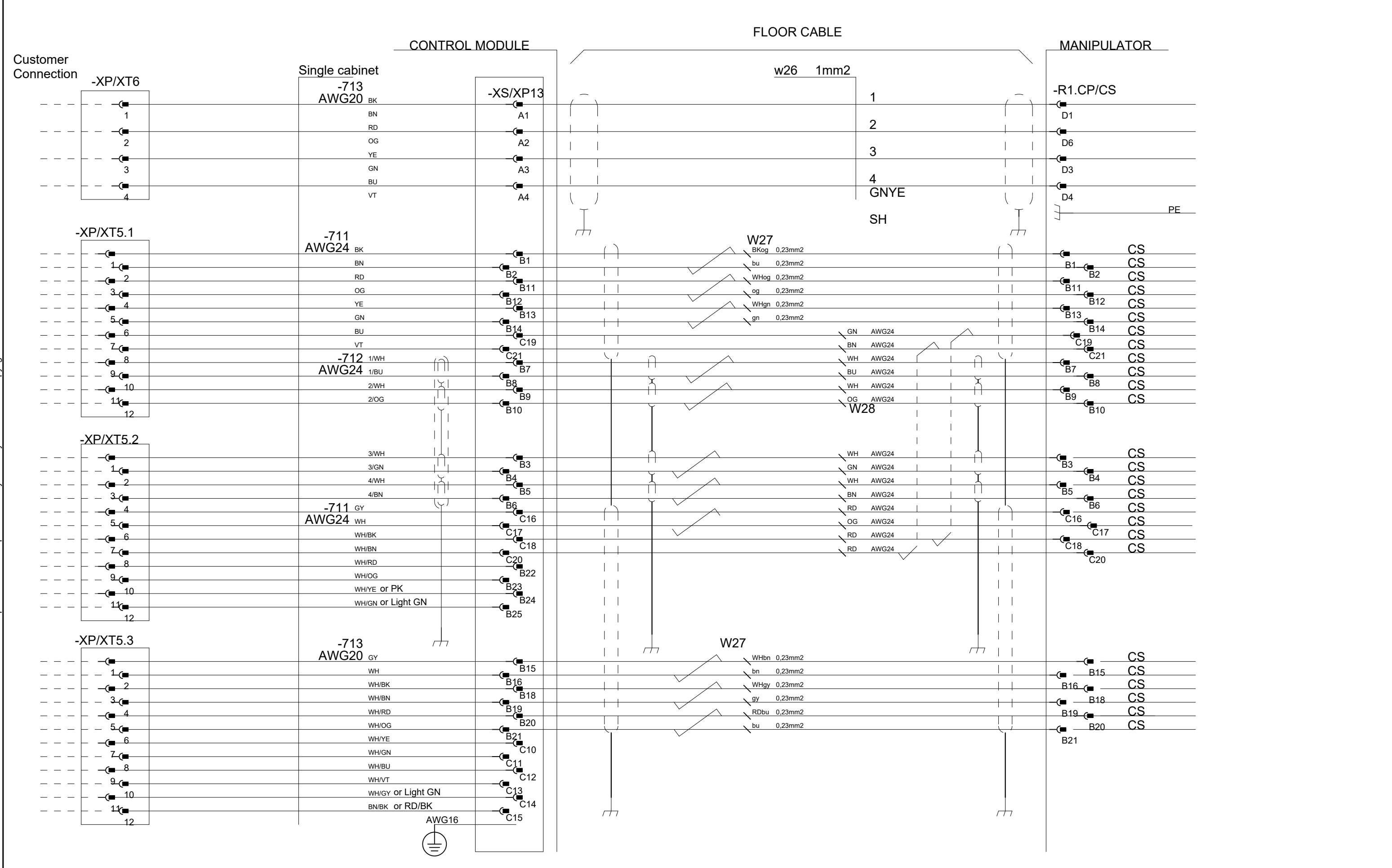
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 CONTROL CABLE
 IRB 660, 760

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 Rev. Ind 14
 Page 70
 Next 71
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 IRB460, 660, 760

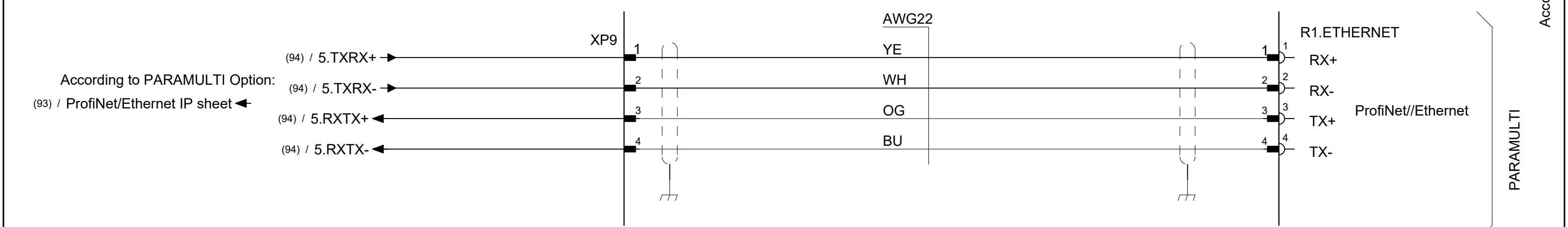
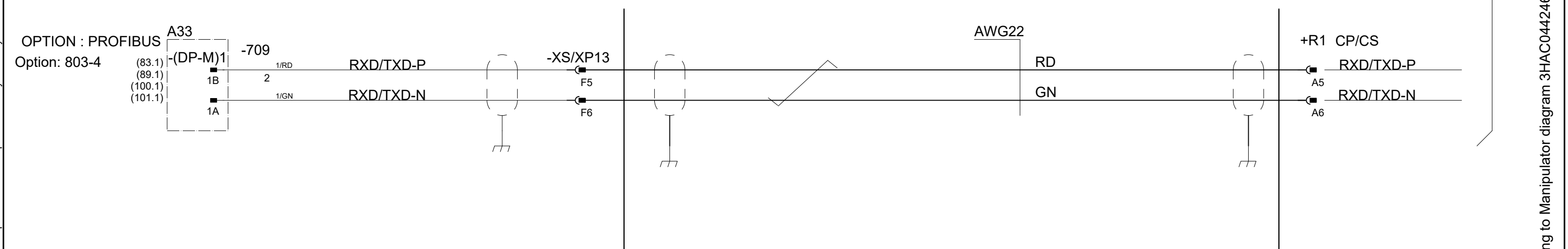
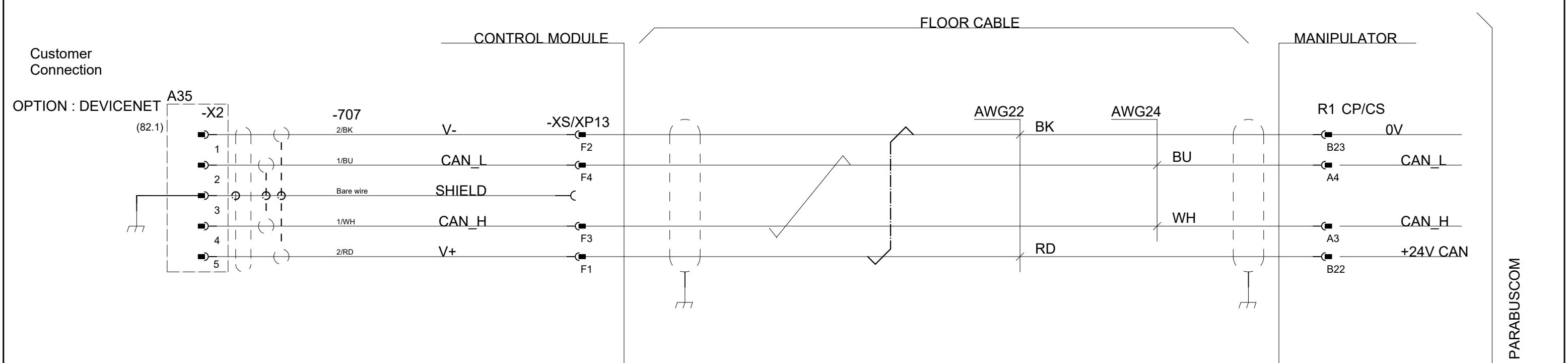
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Page 71
 Next 72
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PARAMBUSCOM

PARAMULTI

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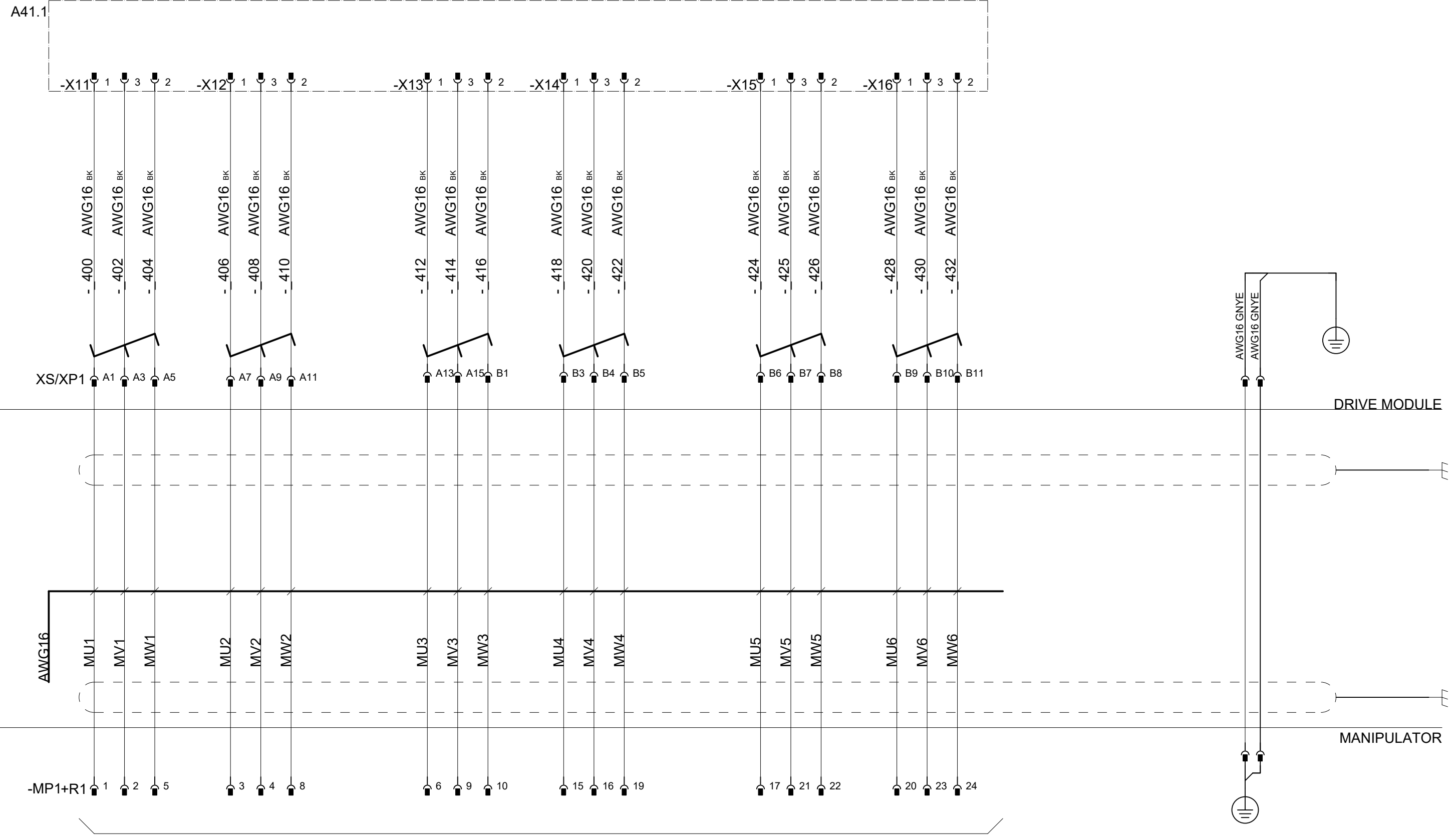
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CAN, PROF-bus, CP/CS, Profinet
IRB460, 660, 760

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Document no. 3HAC026871-020
Rev. Ind 14
Page 72
Next 72.1
Total 125

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Cabinet module

MAIN SERVO DRIVE UNIT



According to Manipulator circuit diagram 3HAC046307-003

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PMC DESIGN 14 Rel: 23D
SERVO DRIVE SYSTEM
IRB 1200

Status:
Approved

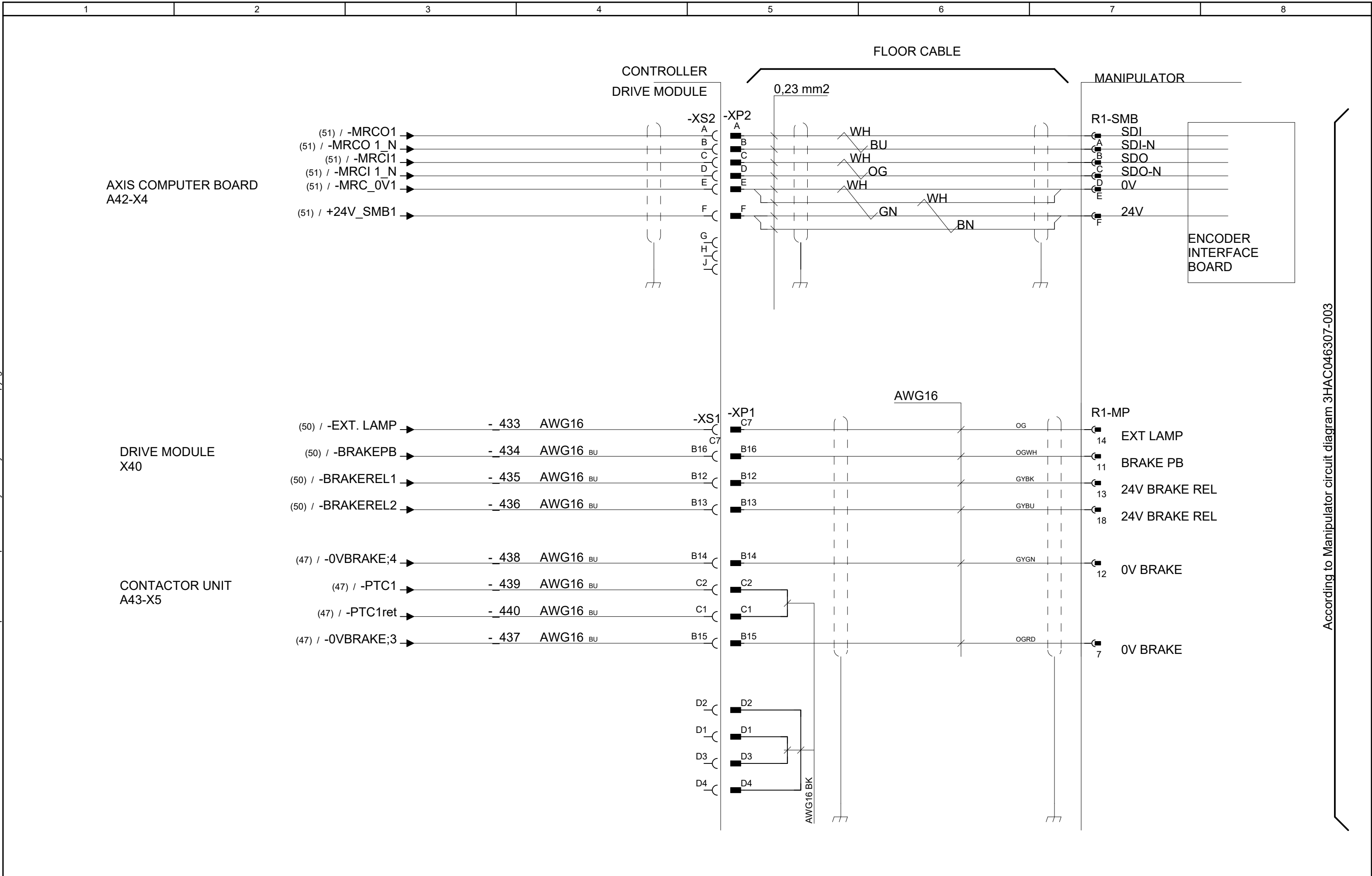
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Rev. Ind	Page 72.1
14	Next 72.2
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 CONTROL CABLE
 IRB 1200

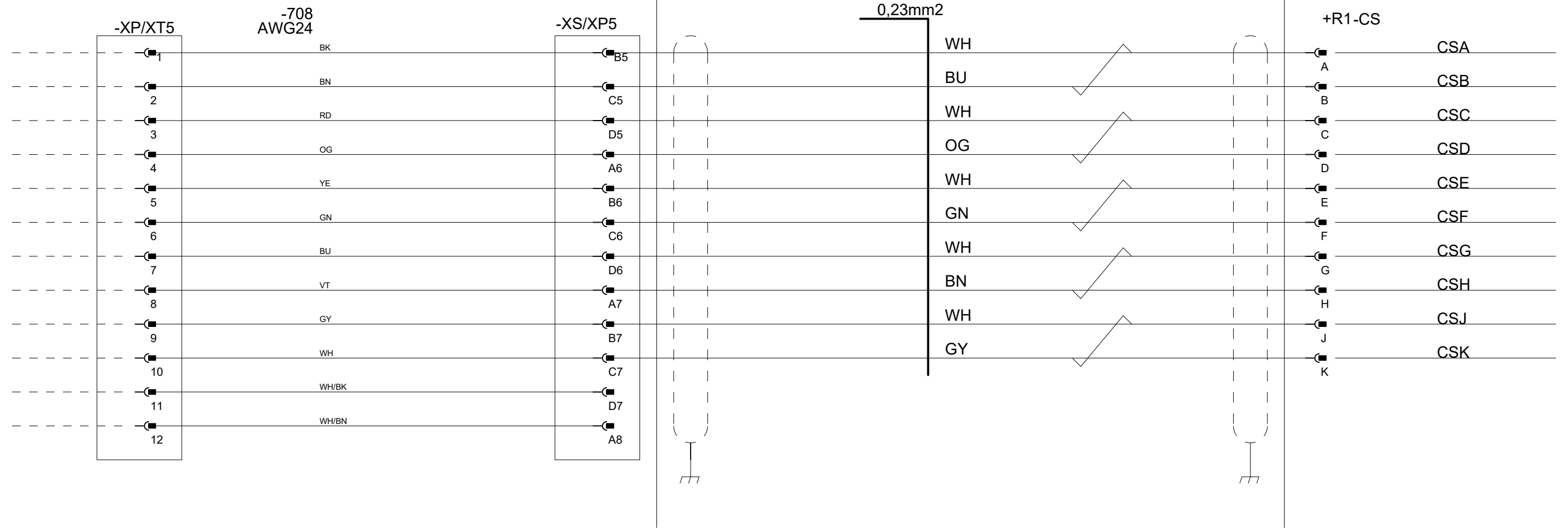
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Document no. 3HAC026871-020	Rev. Ind 14
	Page 72.2 Next 72.3 Total 125

FLOOR CABLE

CONTROLLER
CONTROL MODULE

MANIPULATOR

Customer
Connection



According to Manipulator circuit diagram 3HAC046307-003

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PMC DESIGN 14 Rel: 23D
CUSTOMER SIGNAL
SINGLE CABINET
IRB 1200

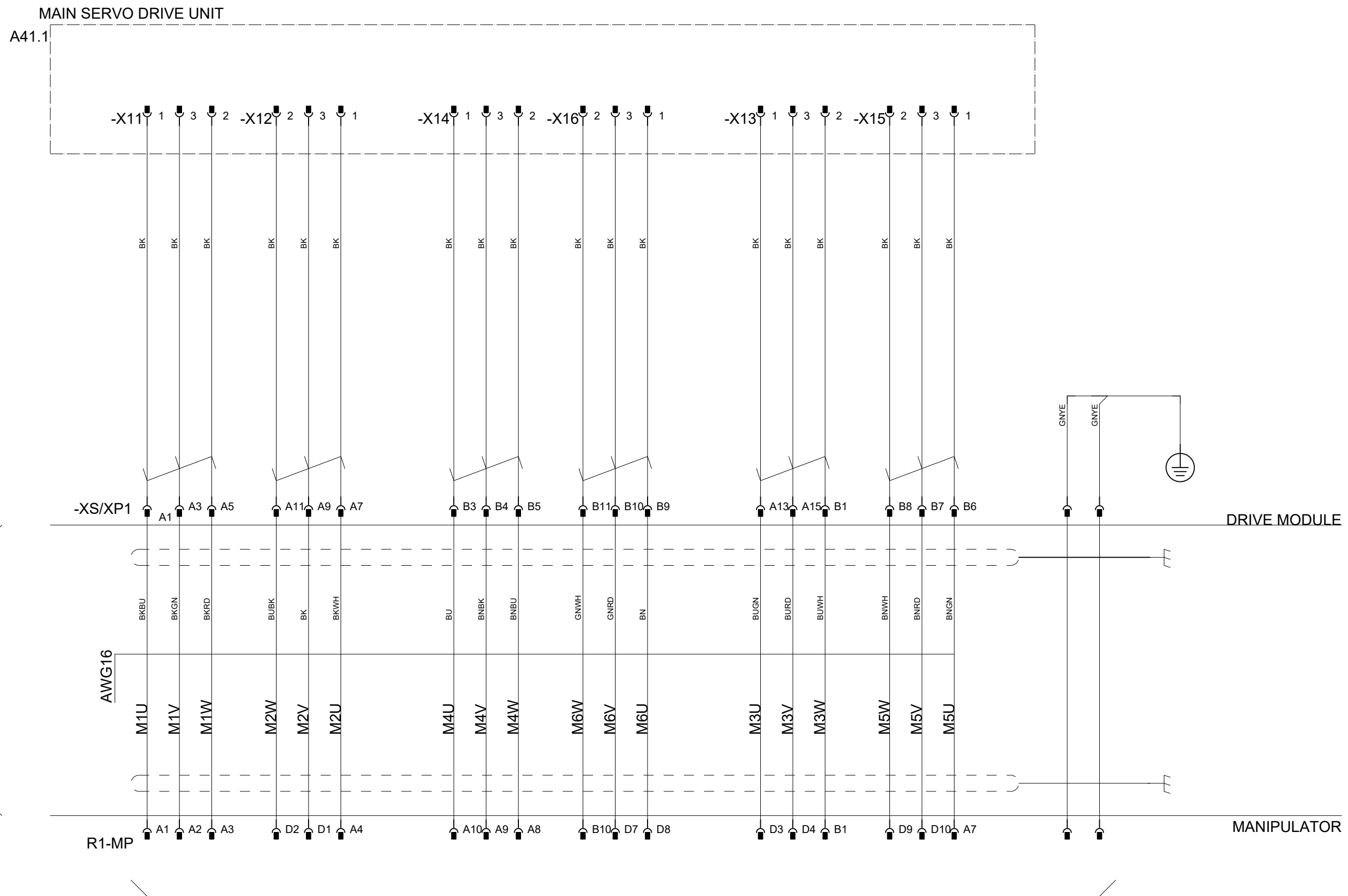
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Document no.
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Rev. Ind
14


Page 72.3
Next 73
Total 125



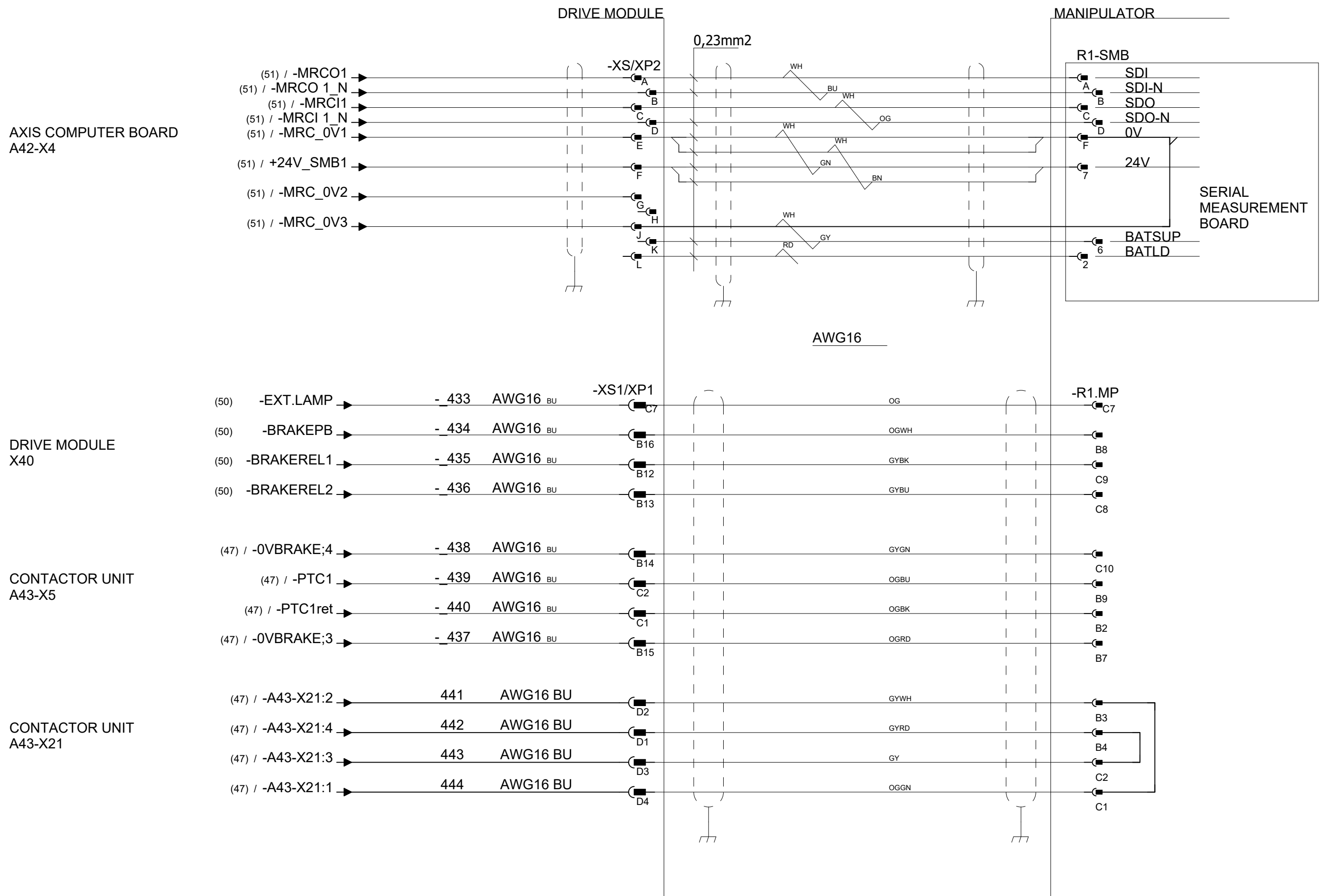
Floor cable

AWG16

According to Manipulator circuit diagram 3HAC021351-003

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					3HAC026871-020	14
						Page 73
						Next 74
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CONTROL CABLE
IRB 1600/1660

Status: Approved

Plant: =
Location: +
Sublocation: +

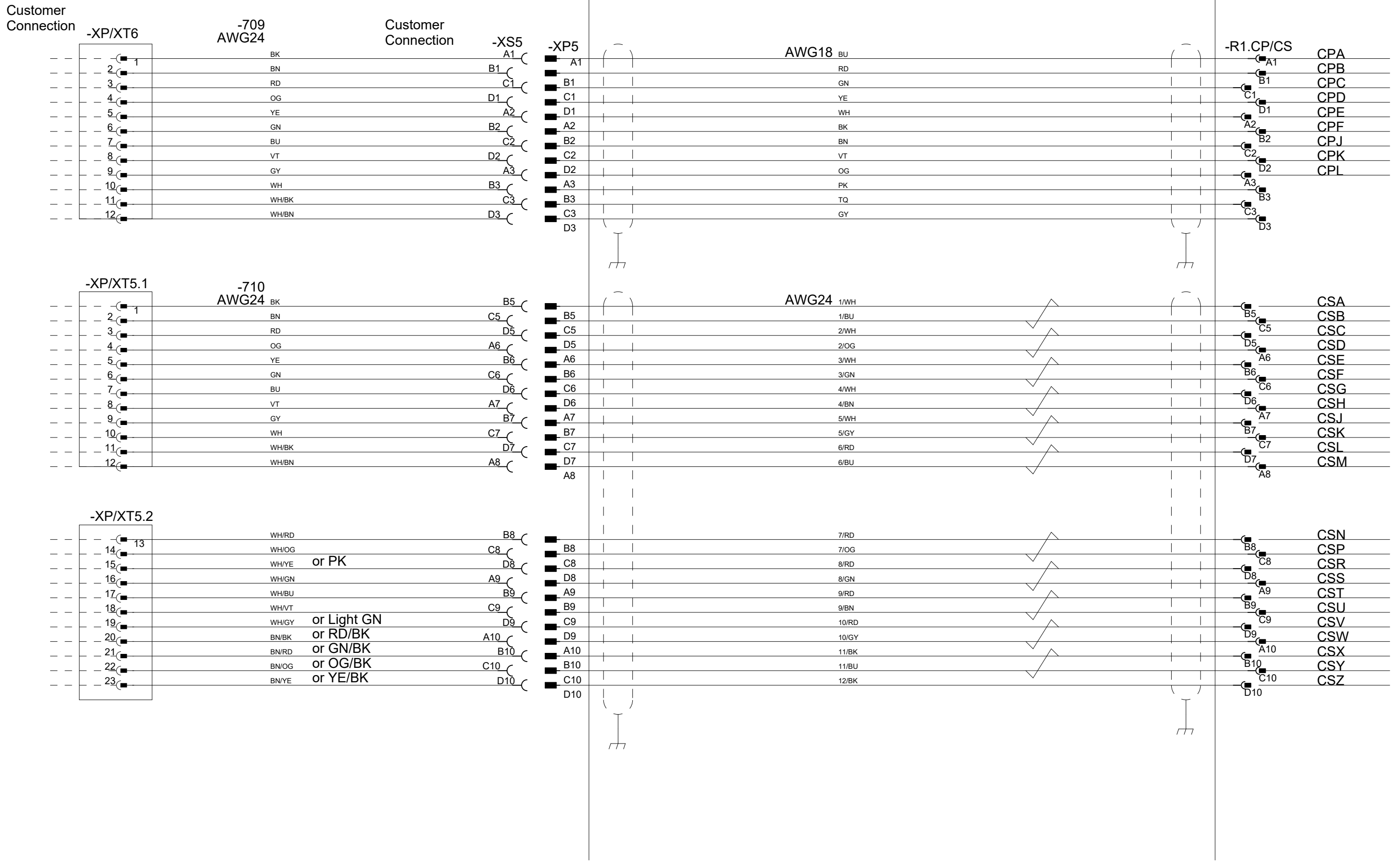
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Rev. Ind 14

Page 74
Next 75
Total 125

CONTROL MODULE

MANIPULATOR



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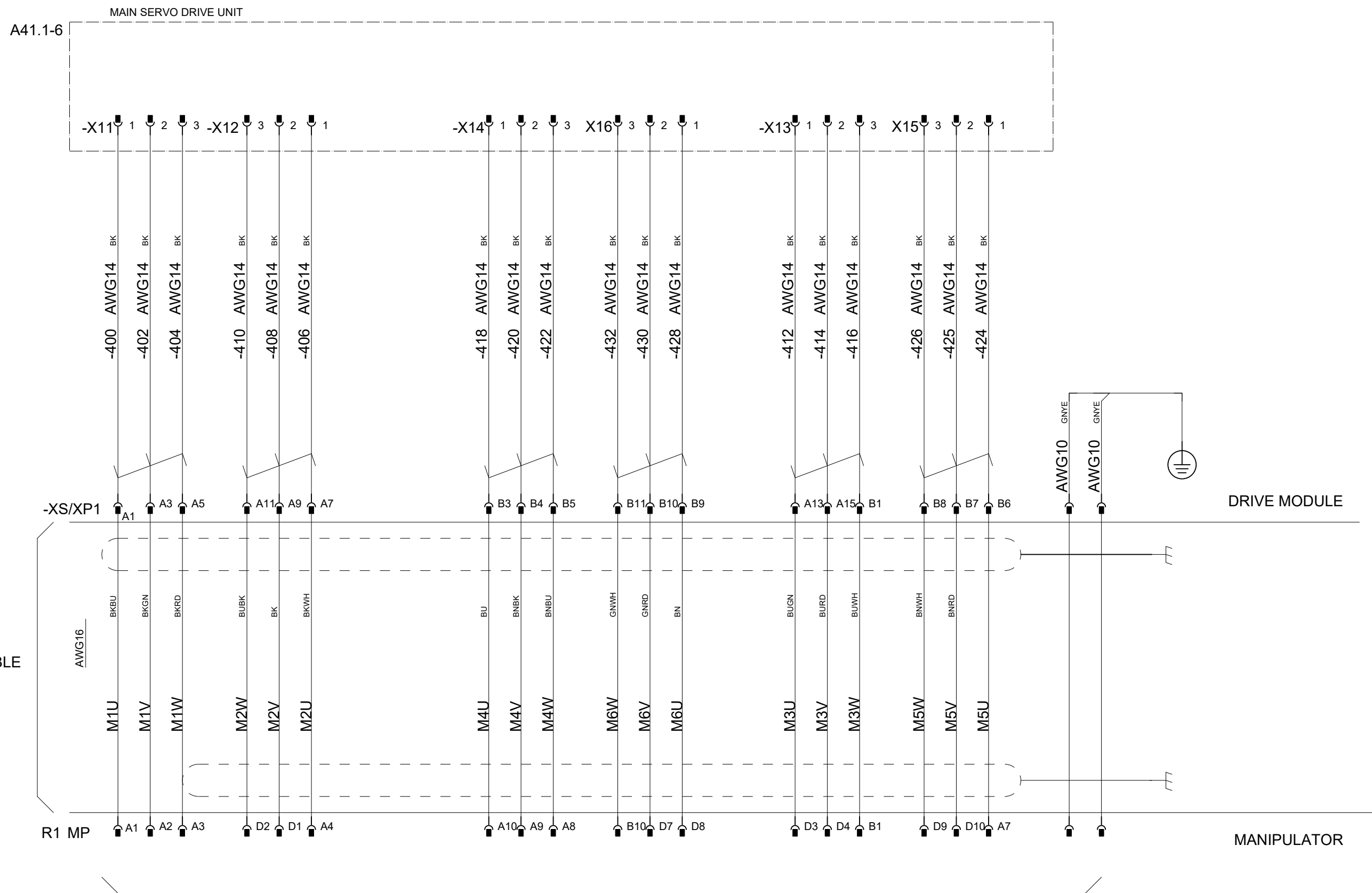


Lab/Office:
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 PMC DESIGN 14 Rel: 23D
 CUSTOMER POWER/SIGNAL
 IRB 1600/1660

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 Rev. Ind 14
 Page 75
 Next 76
 Total 125

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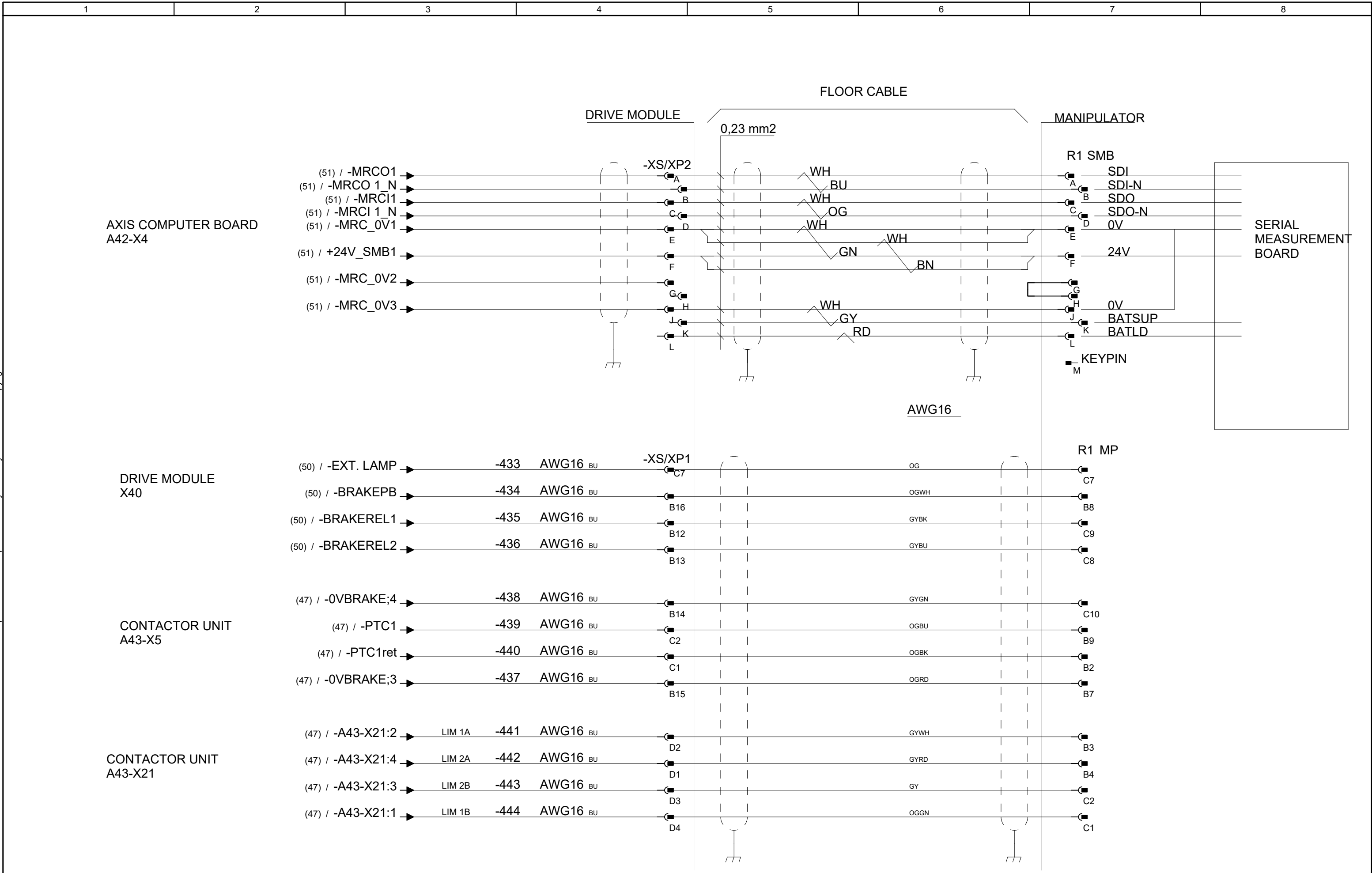


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SERVO DRIVE UNIT
IRB 2400

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	Page 76 Next 77 Total 125

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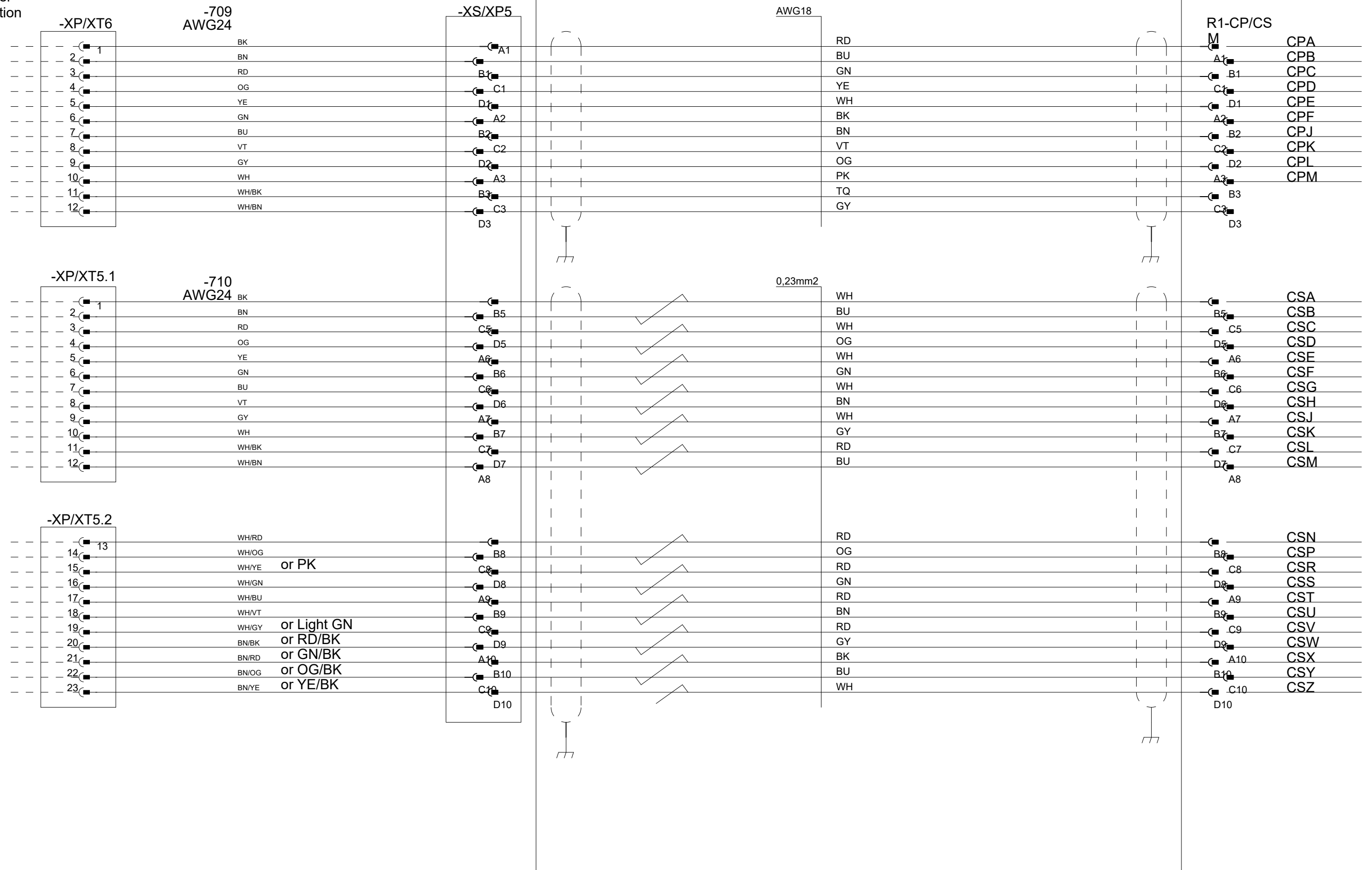
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Page 77
 Next 78
 Total 125

CONTROL MODULE

MANIPULATOR

Customer Connection



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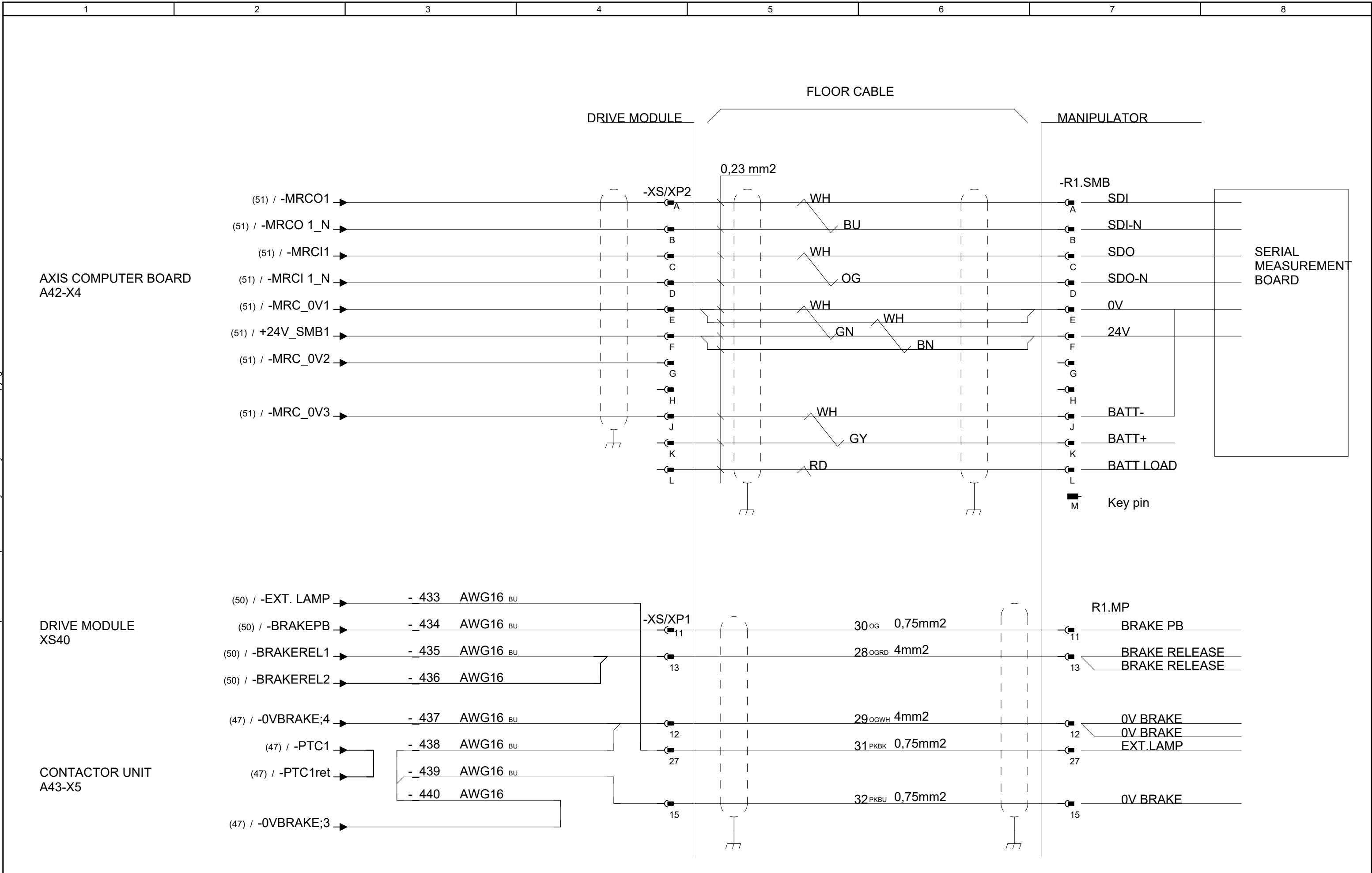


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 IRB 2400

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Document no. 3HAC026871-020 Rev. Ind 14 Page 78
 Next 79
 Total 125

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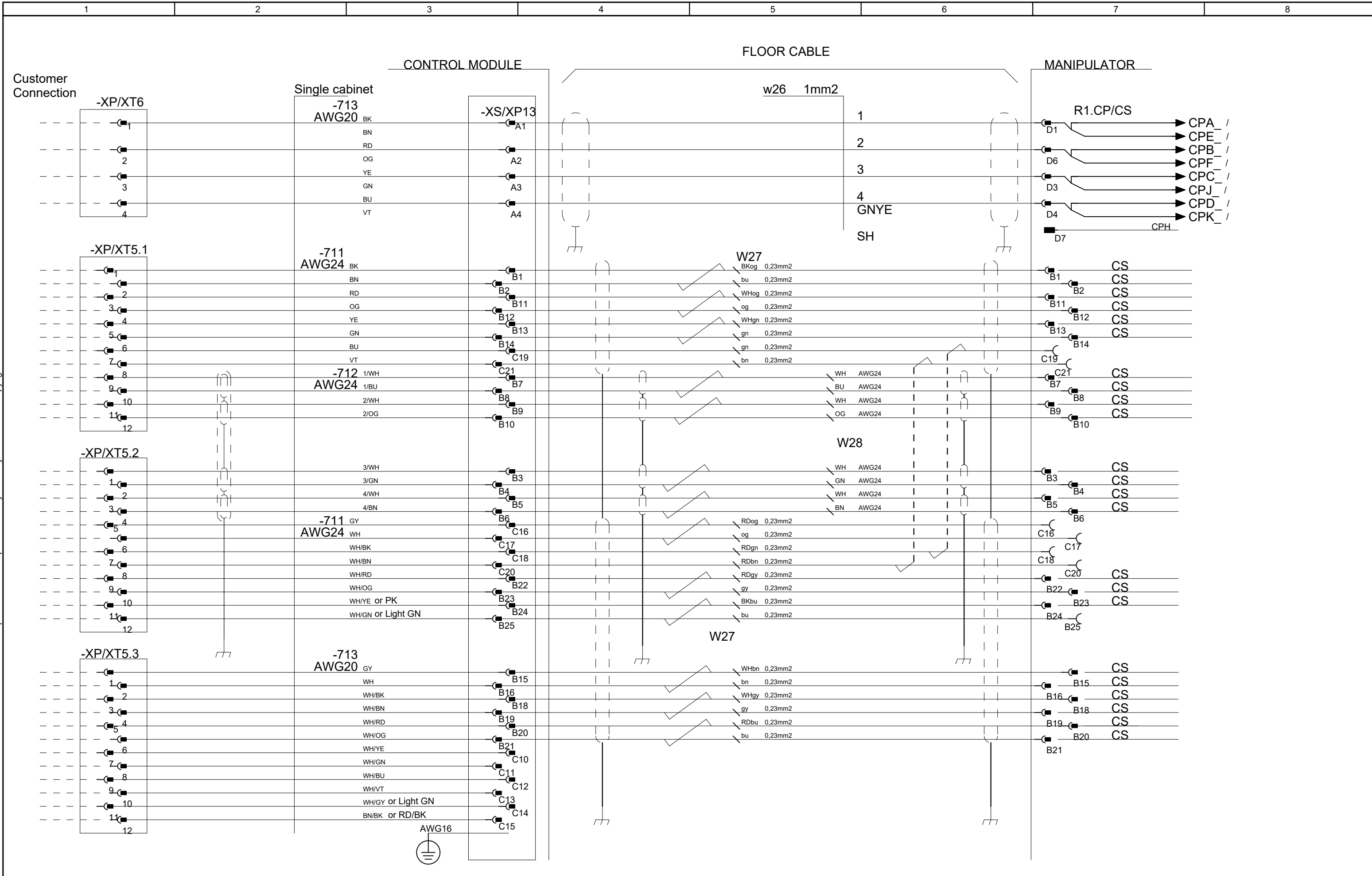
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 Rev. Ind 14
 Page 80
 Next 81
 Total 125



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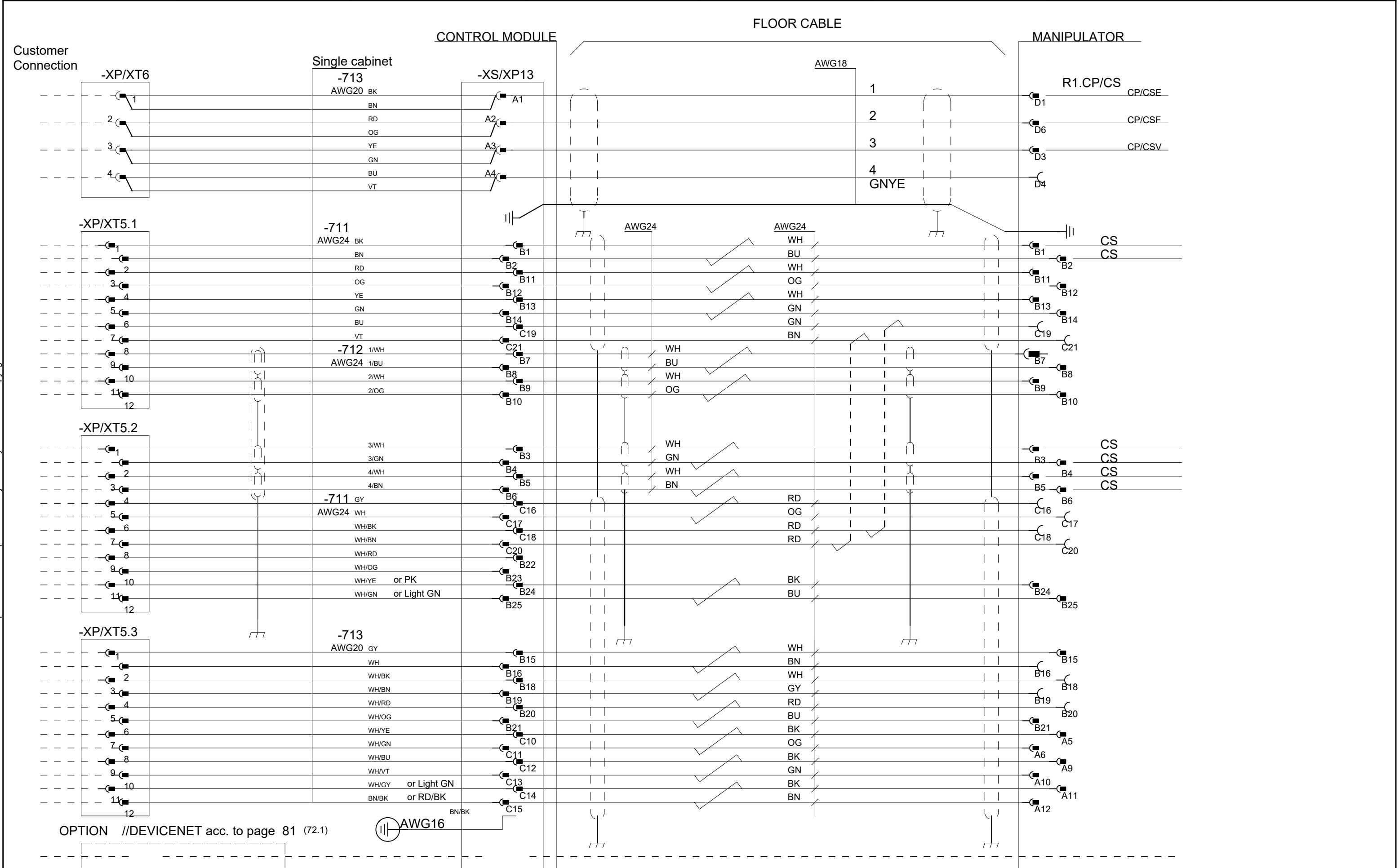
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 IRB2600

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 Sublocation: +

Document no. 3HAC026871-020
 Rev. Ind 14
 Page 81
 Next 82
 Total 125

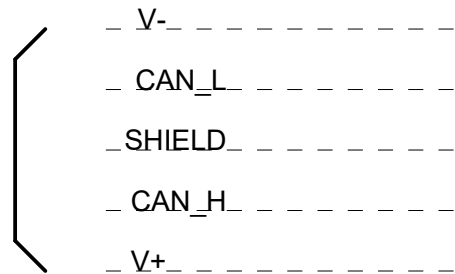


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Customer Connection
 Additinal to page 79 and 80

Option: Devicenet connection

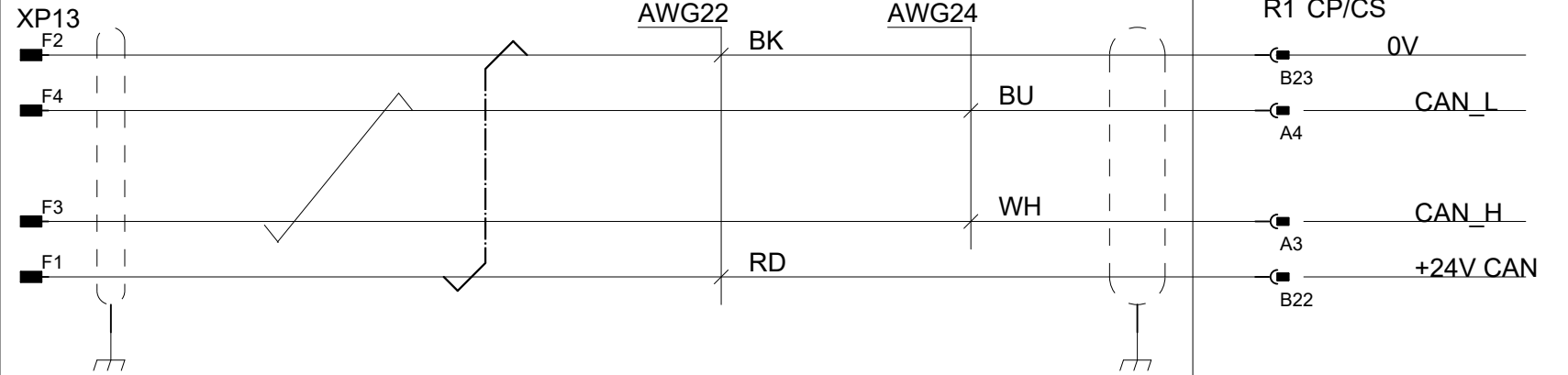
(27) / A35 ←



CONTROL MODULE

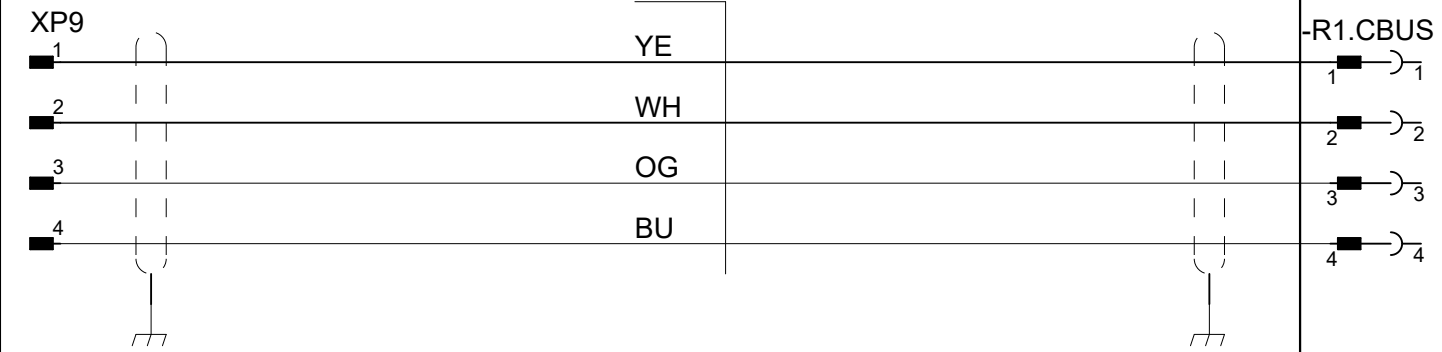
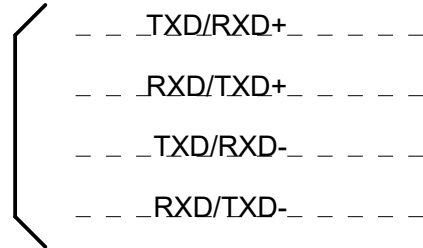
FLOOR CABLE

MANIPULATOR



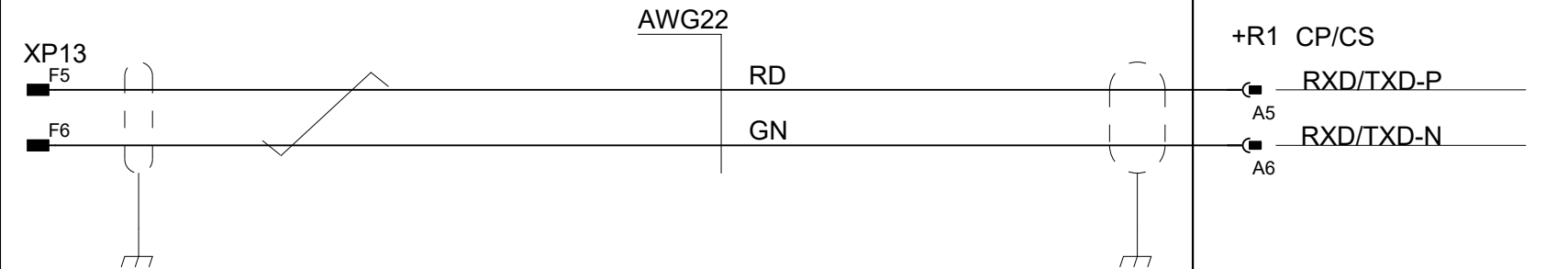
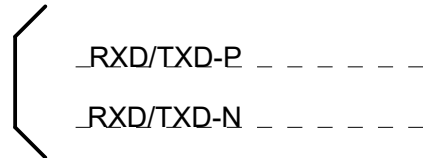
Option: ProfiNet / Ethernet IP

(90) / ProfiEthernet ←



Option: Profibus

(90) / A33 ←



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PMC DESIGN 14 Rel: 23D
 DevNet/Pofinet/Ethernet/Profibus addition to CP/CS
 IRB2600

Status:
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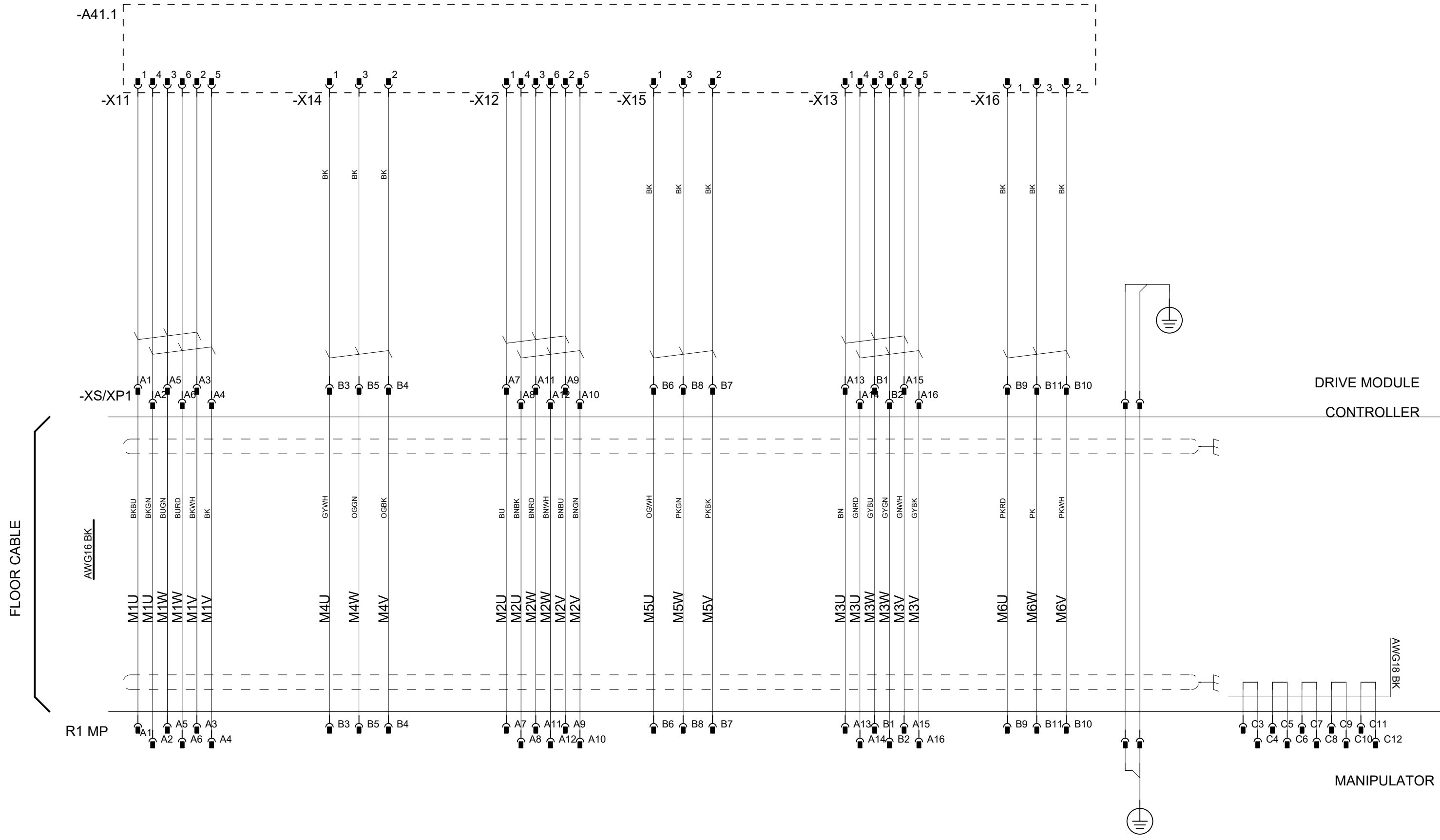
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 3HAC026871-020

Rev. Ind Page 83.3
 14 Next 83.4
 Total 125

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SERVO DRIVE SYSTEM
IRB 4400

Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HAC026871-020	Rev. Ind 14
	Page 83.4 Next 83.5 Total 125

FLOOR CABLE

CONTROLLER DRIVE MODULE

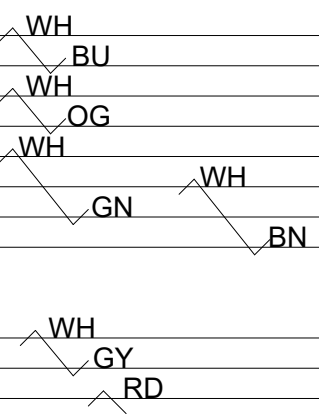
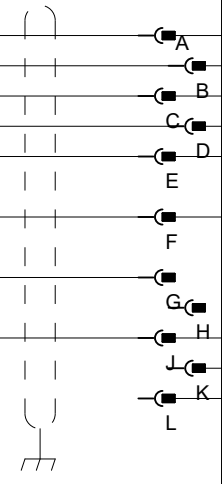
MANIPULATOR

AXIS COMPUTER BOARD
A42-X4

- (51) / -MRCO1
- (51) / -MRCO 1_N
- (51) / -MRCI1
- (51) / -MRCI 1_N
- (51) / -MRC_0V1
- (51) / +24V_SMB1
- (51) / -MRC_0V2
- (51) / -MRC_0V3

-XS/XP2

0,23 mm²



R1 SMB

- A SDI
- B SDI-N
- C SDO
- D SDO-N
- E 0V
- F 24V
- G 0V
- H BATSUP
- J BATLD
- K
- L
- M KEYPIN

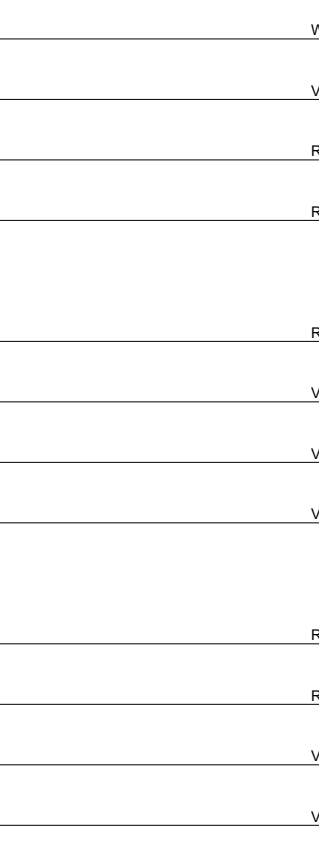
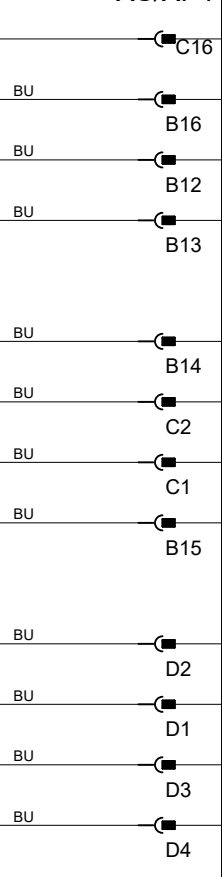
SERIAL MEASUREMENT BOARD

DRIVE MODULE
X40

- (50) / -EXT. LAMP
- (50) / -BRAKEPB
- (50) / -BRAKEREL1
- (50) / -BRAKEREL2

-XS/XP1

AWG16



R1 MP

- C16
- B16
- B12
- B13
- B14
- C2
- C1
- B15
- D2
- D1
- D3
- D4

CONTACTOR UNIT
A43-X5

- (47) / -0VBRAKE;4
- (47) / -PTC1
- (47) / -PTC1ret
- (47) / -0VBRAKE;3

CONTACTOR UNIT
A43-X21

- (47) / -A43-X21:2
- (47) / -A43-X21:4
- (47) / -A43-X21:3
- (47) / -A43-X21:1

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CONTROL CABLE
IRB 4400

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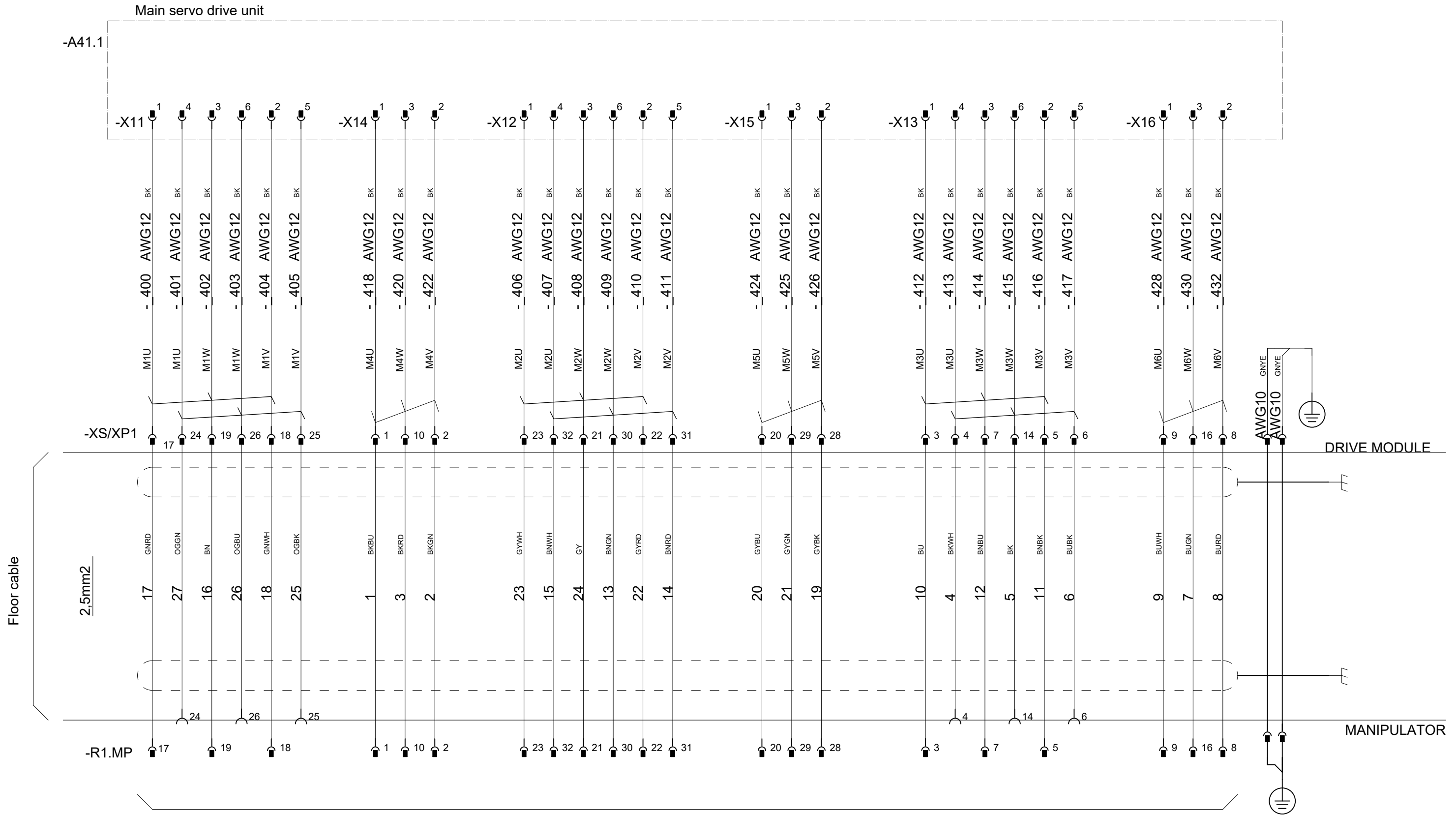
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14

Page 83.5
Next 83.6
Total 125

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According to Manipulator circuit diagram 3HAC029038-003

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SERVO DRIVE SYSTEM
IRB 4600

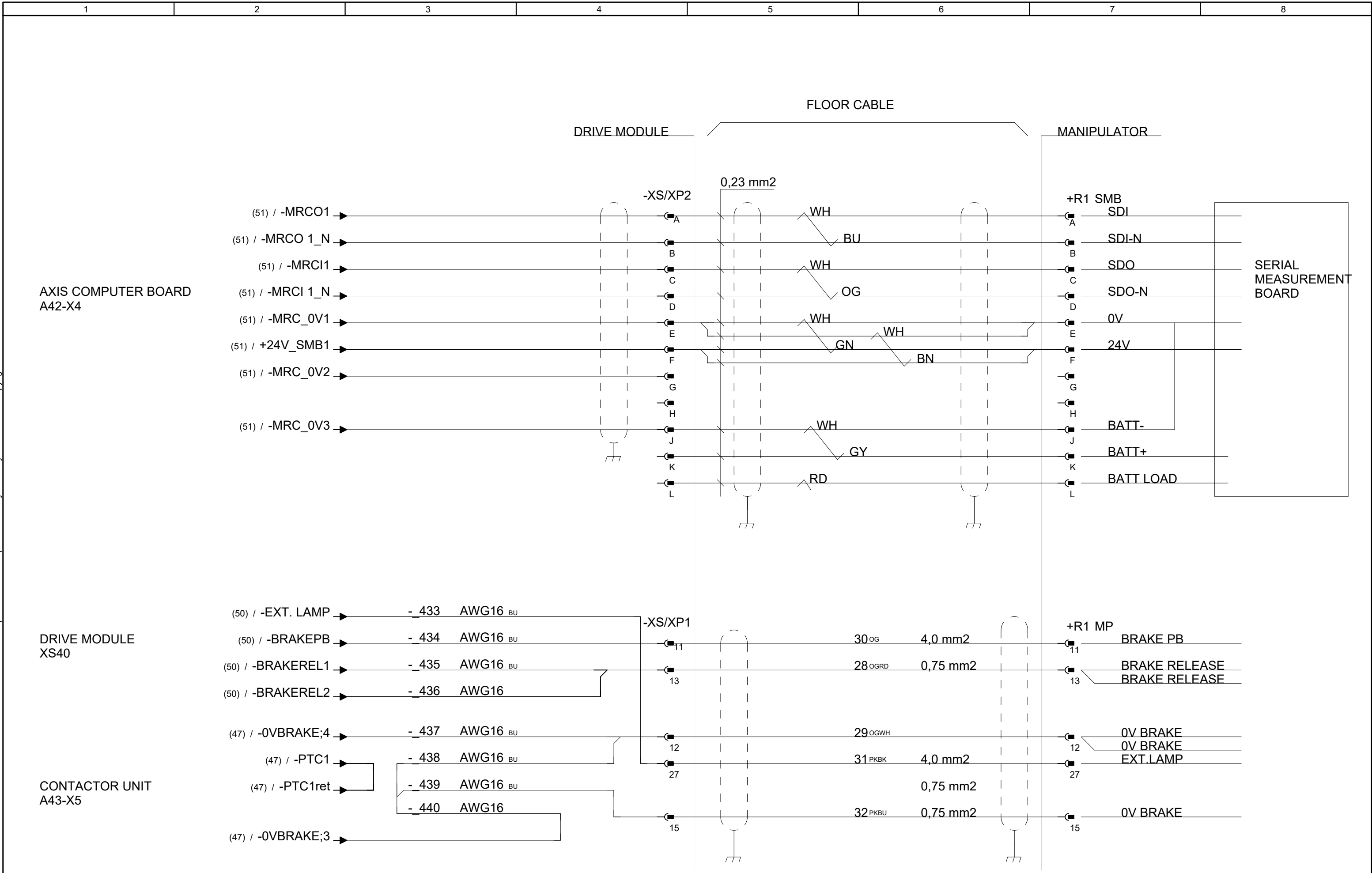
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14	Next 86
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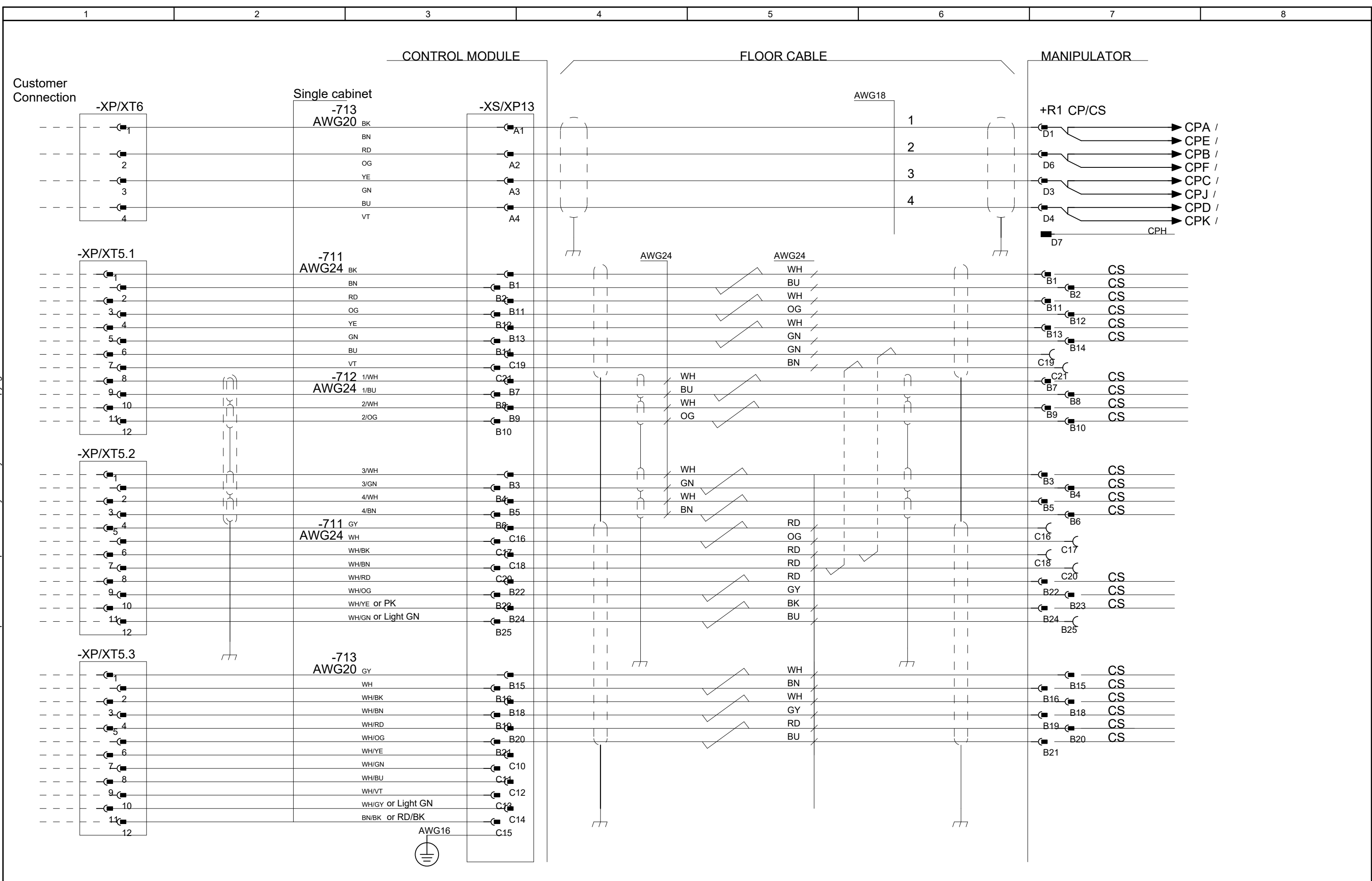


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 CONTROL CABLE
 IRB 4600

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 Rev. Ind 14
 Page 86
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 CUSTOMER POWER/SIGNAL
 IRB4600

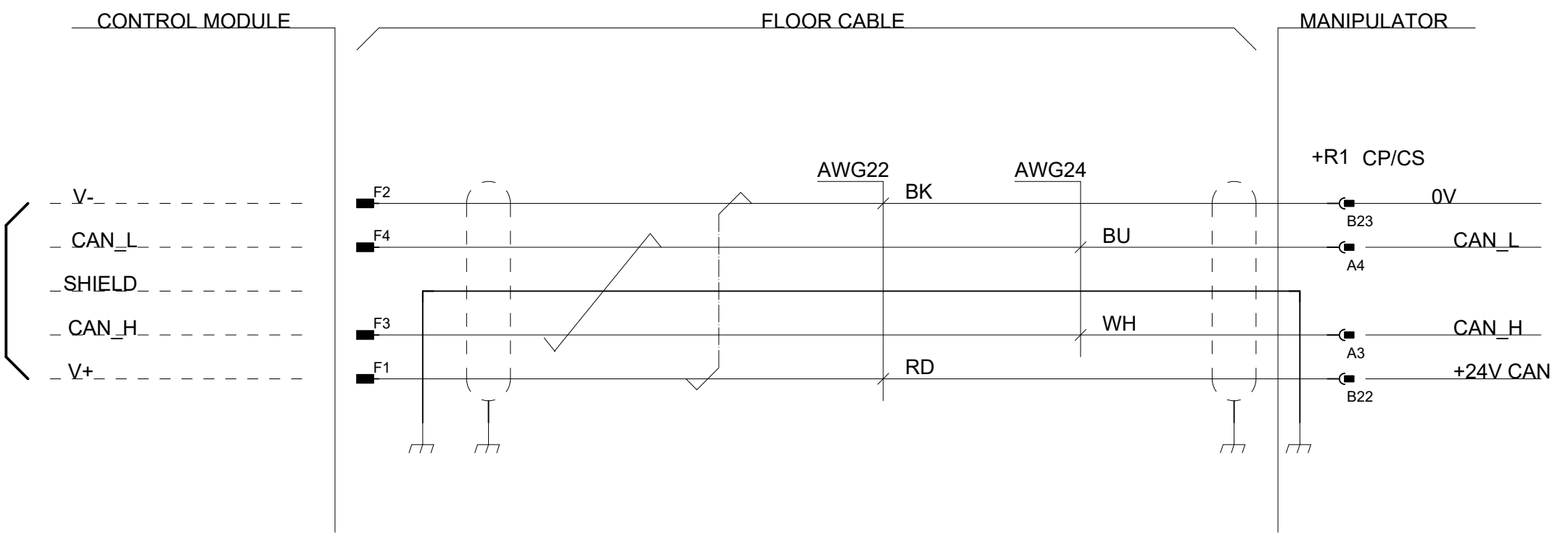
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Document no. 3HAC026871-020
 Rev. Ind 14
 Page 87
 Next 88
 Total 125

Customer Connection
Additional to page 85 and 86

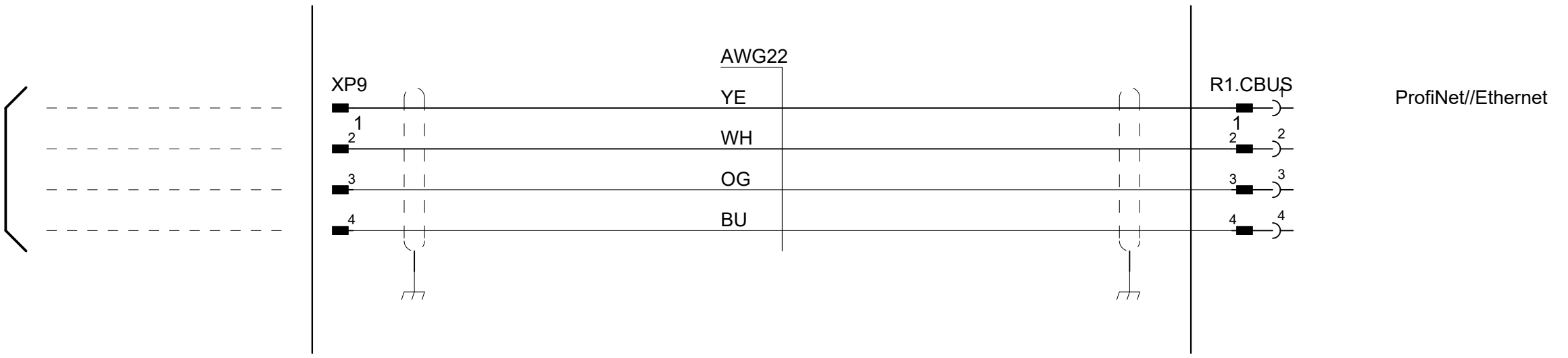
Option: Devicenet connection

(27) / A35 ←



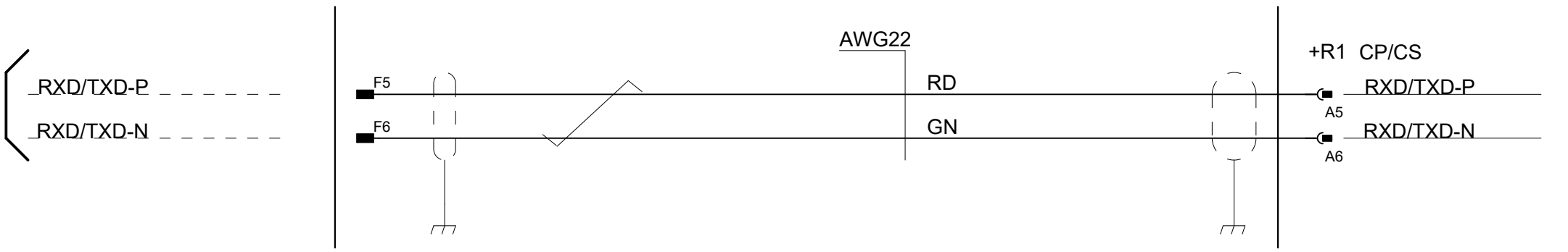
Option: ProfiNet / Ethernet IP

(83.3) / ProfiEthernet ←



Option: Profibus

(83.3) / A33 ←



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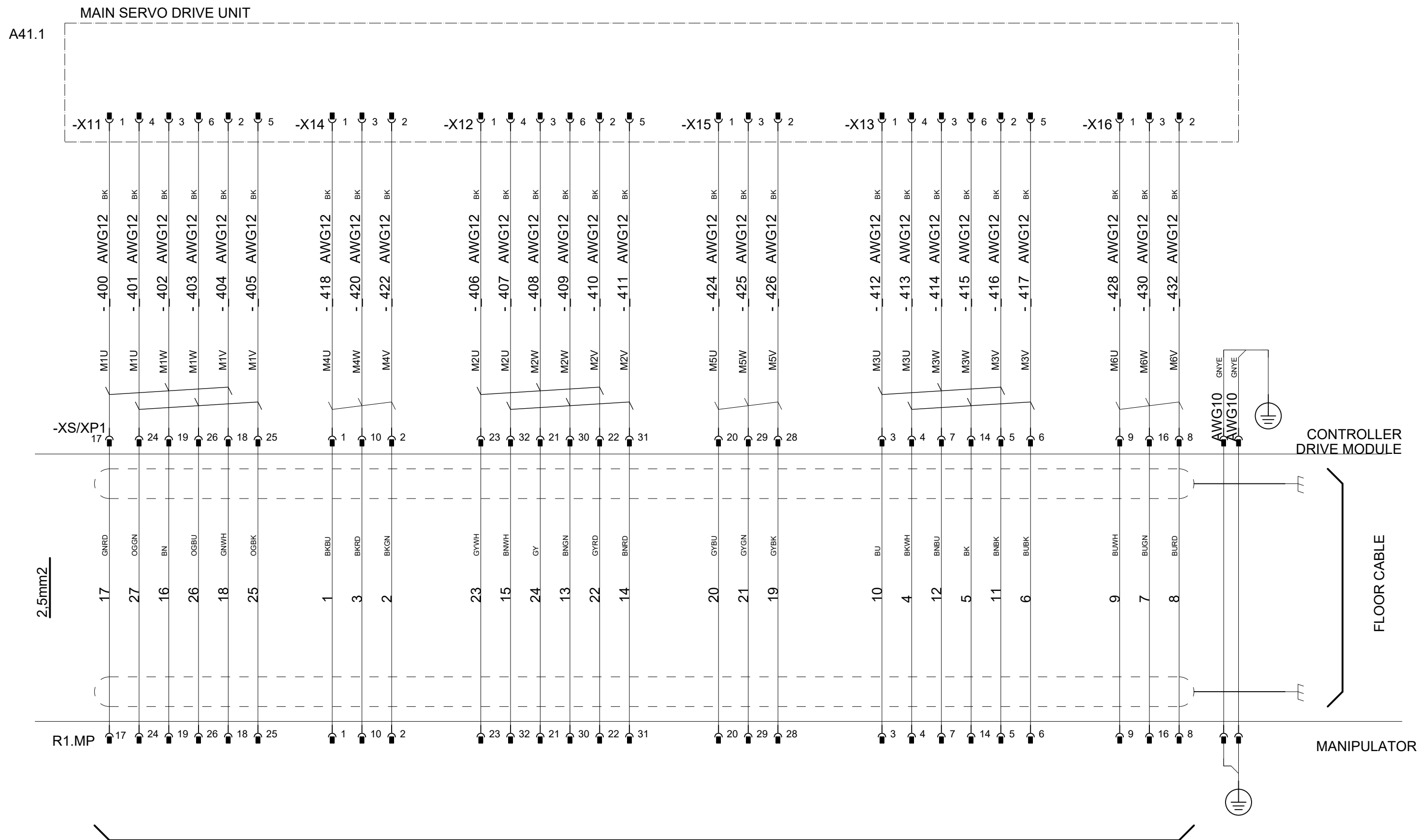
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DevNet/PofiNet/Ethernet/Profibus additional
to CP/CS //IRB4600

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	Page90 Next 91 Total 125

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SERVO DRIVE SYSTEM
IRB 6700

Status:
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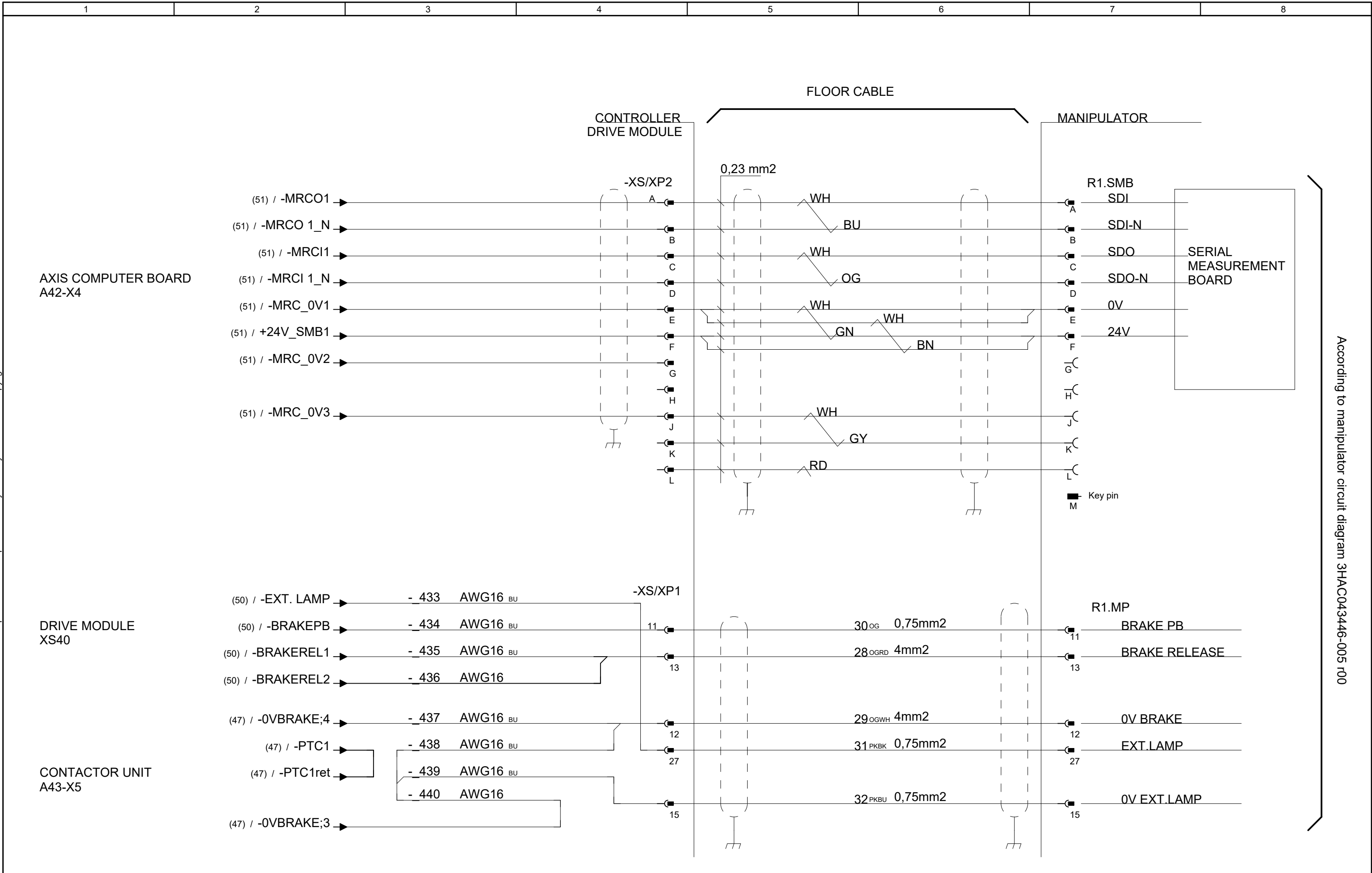
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Page 91
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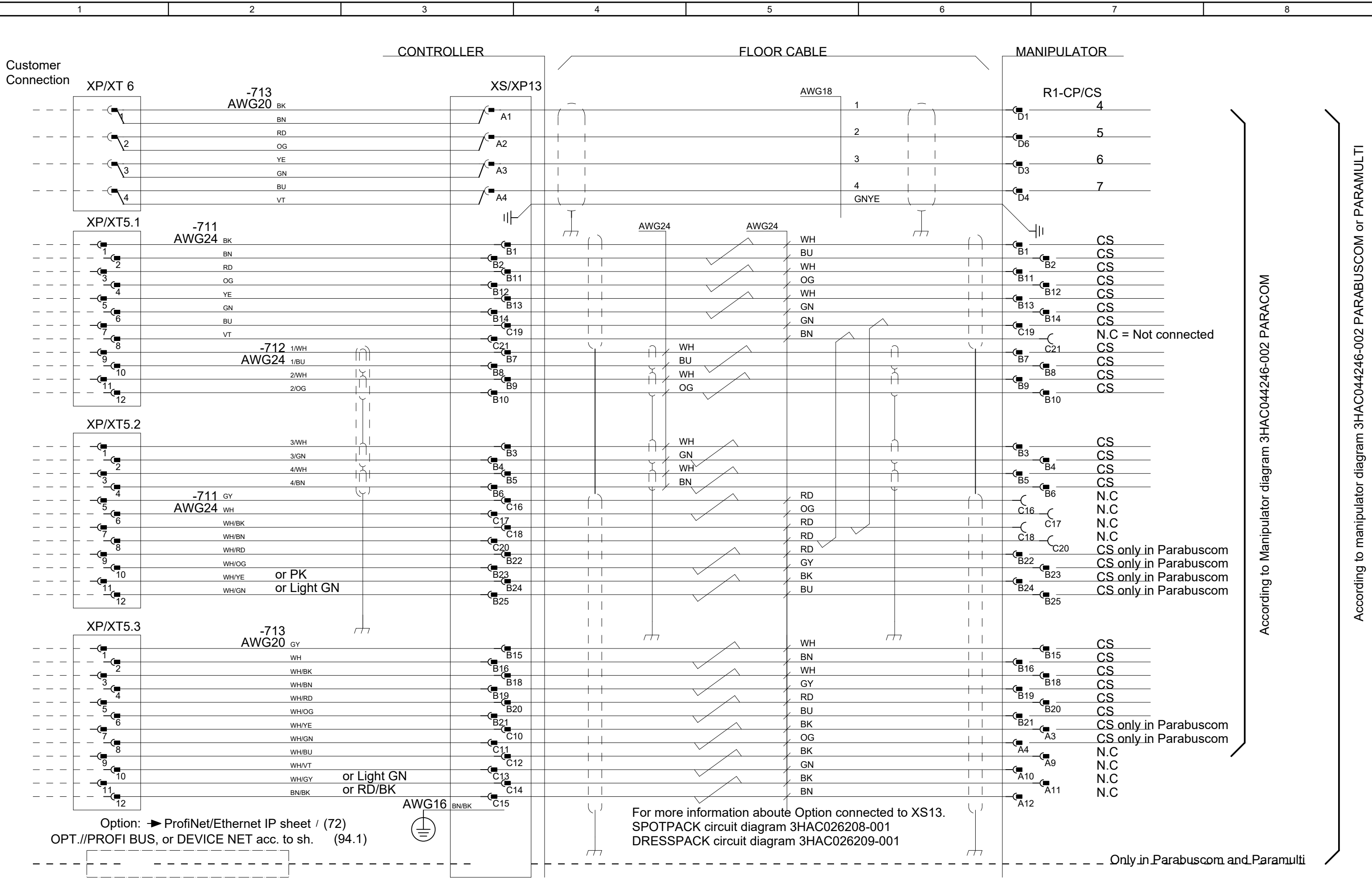


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 Page 92
 Next 93
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According to Manipulator diagram 3HAC044246-002 PARACOM

According to manipulator diagram 3HAC044246-002 PARABUSCOM or PARAMULTI

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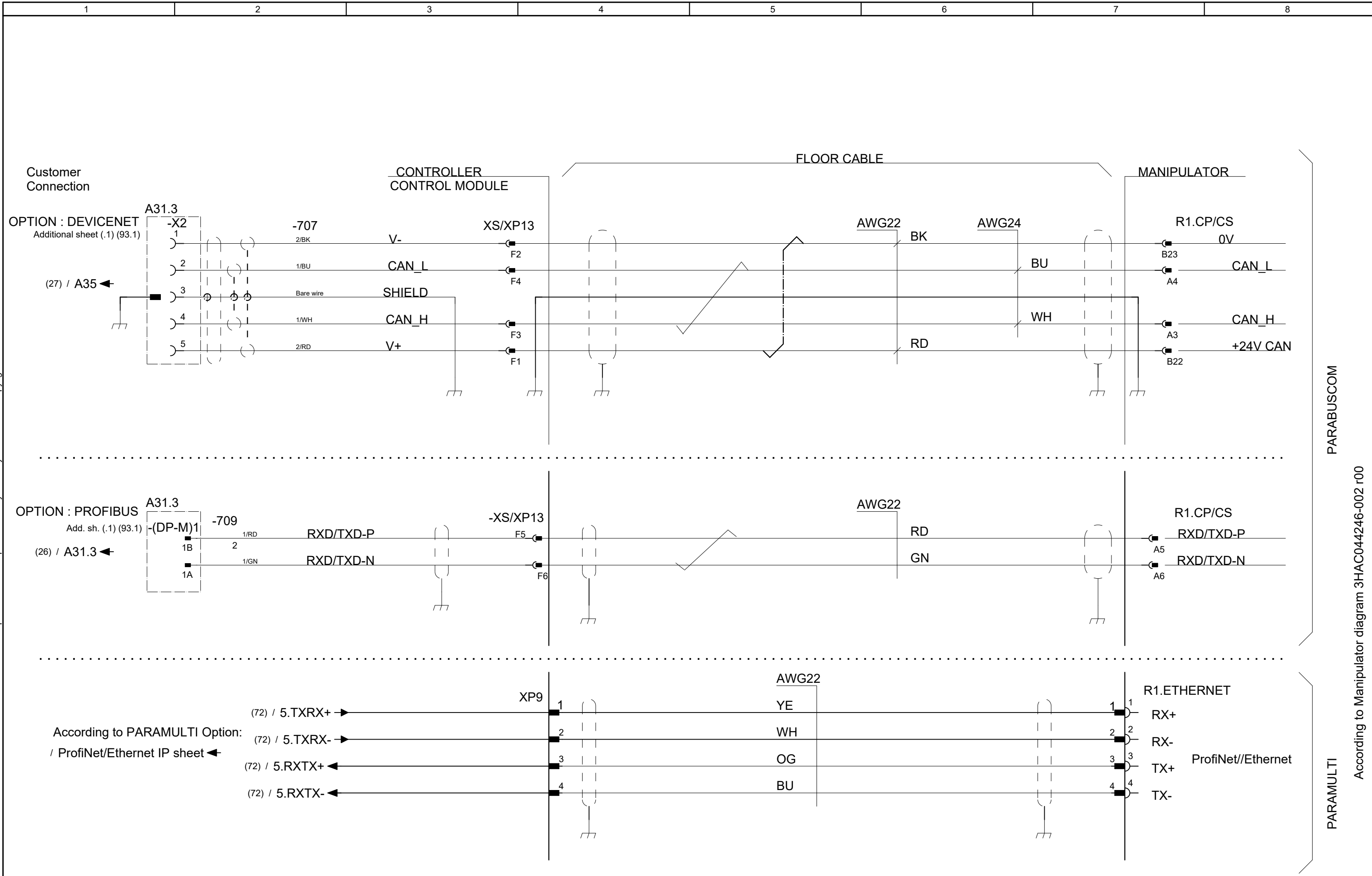
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 CUSTOMER POWER/SIGNAL, PARACOM
 PARAMULTI, PARABUSCOM
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Document no. 3HAC026871-020 Rev. Ind 14 Page 93
 Next 94
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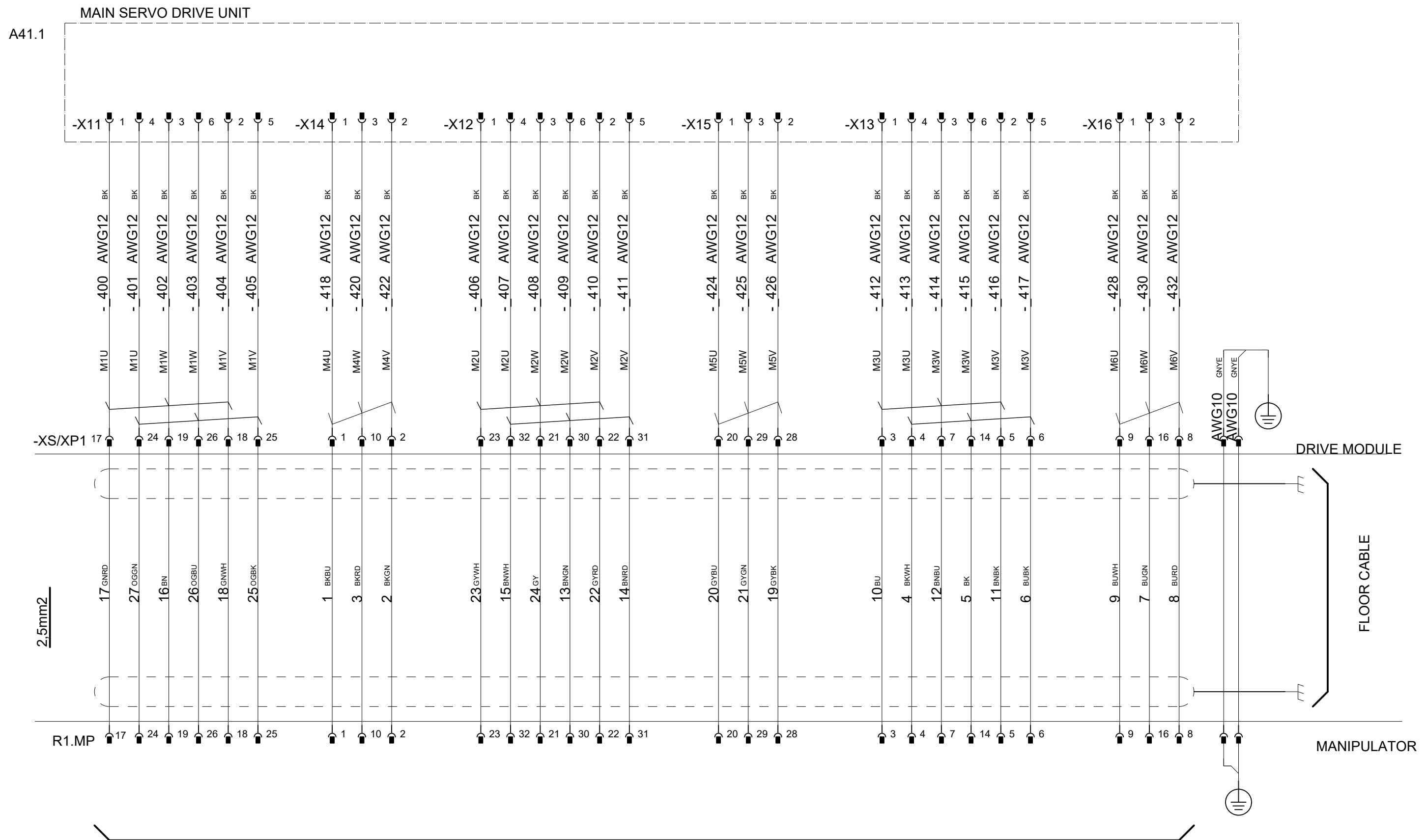
PARABUSCOM

PARAMULTI

According to Manipulator diagram 3HAC04246-002 r00

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			RA/RDP	DevNet//EtherNet//ProfiNet//PBUS ADDITION TO CP/CS IRB 6700	Approved	Location: +
Prepared by, date: A Hägglund	Approved by, date: S Hällgren 2023-10-30				Document no.	Rev. Ind
					3HAC026871-020	14
					Page 94	
					Next 95	
					Total 125	

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According to Manipulator IRB66XX - 76XX circuit diagram 3HAC025744-001

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SERVO DRIVE SYSTEM
IRB 66xx - 76xx

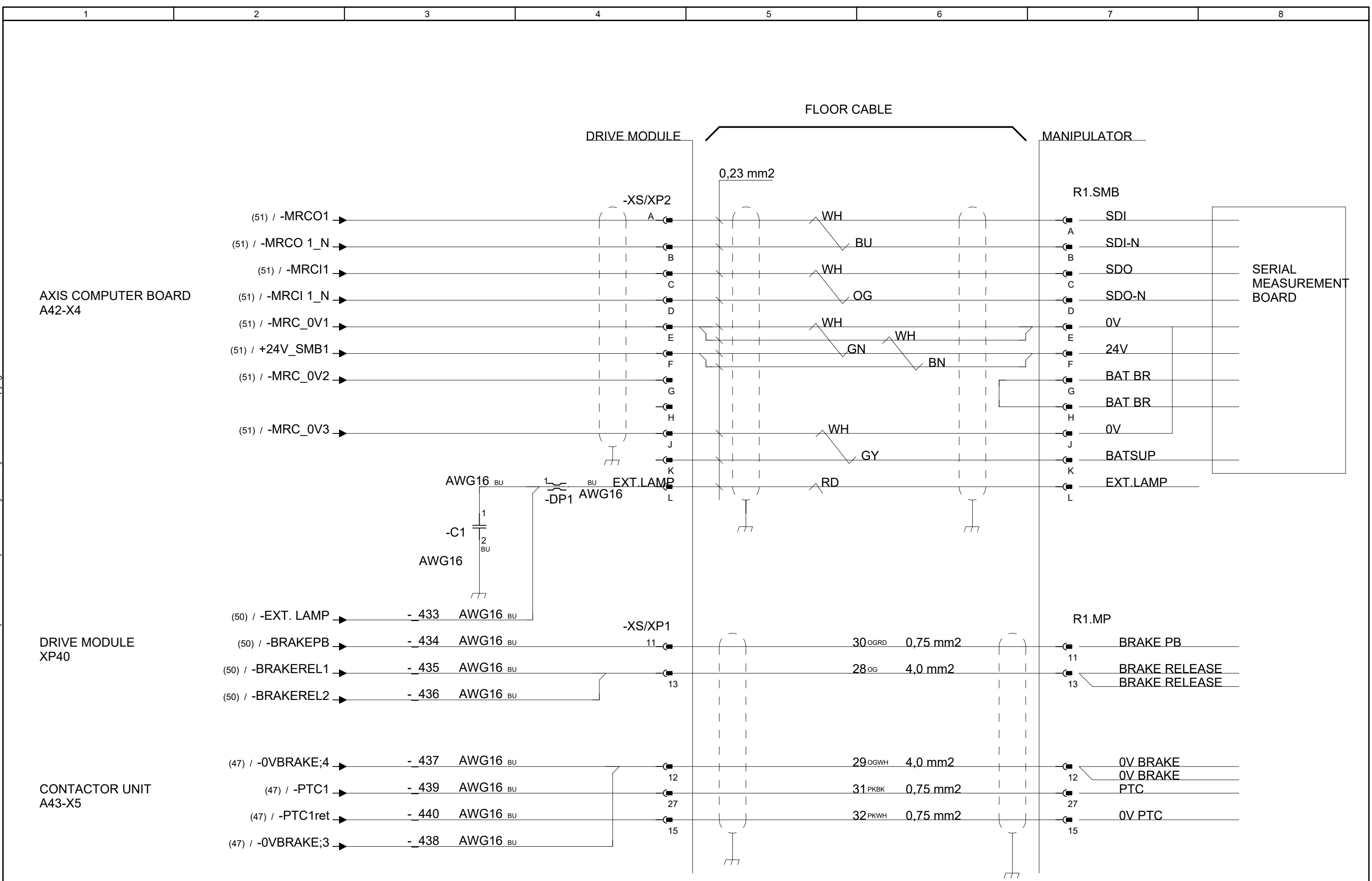
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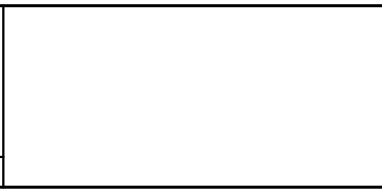
Rev. Ind	Page 95
14	Next 96
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CONTROL CABLE
IRB 66xx - 76xx

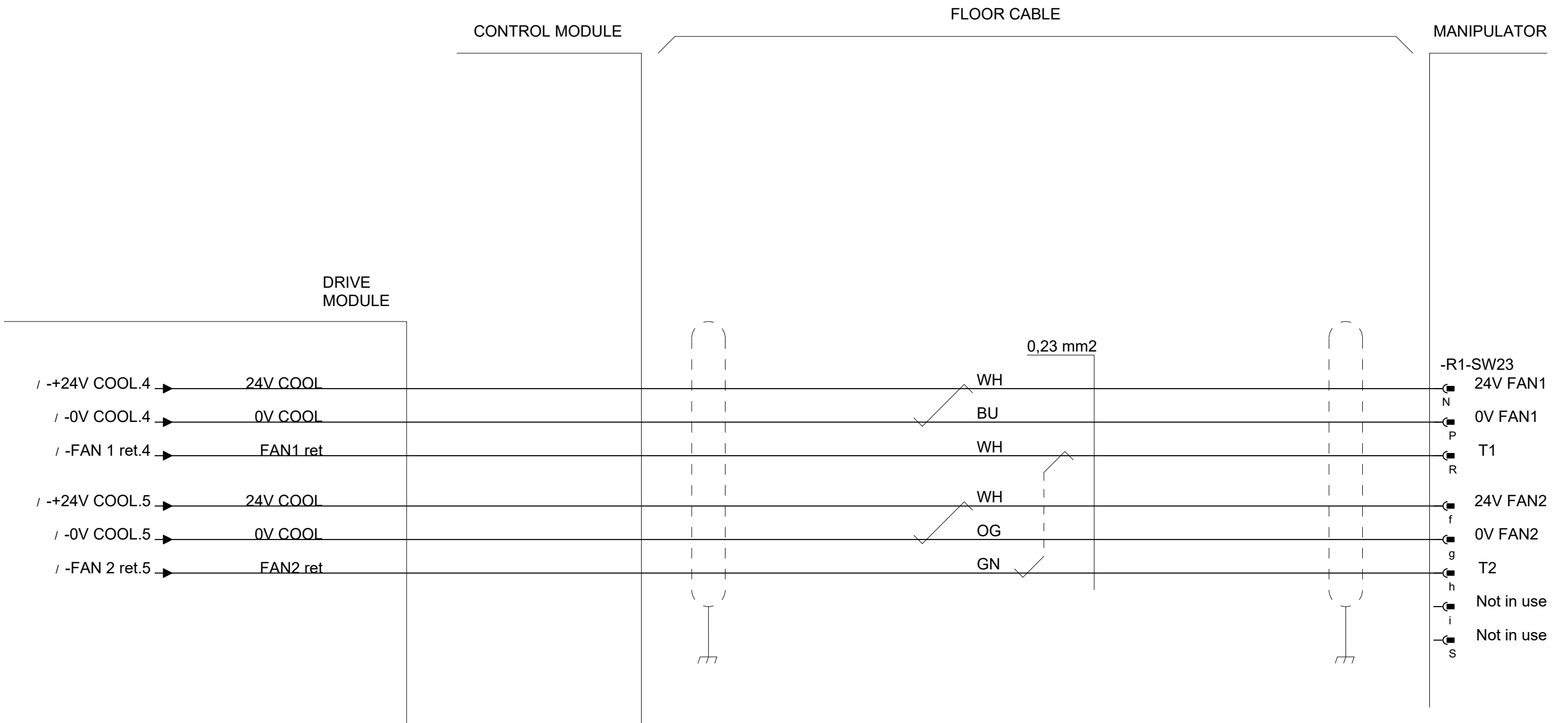
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Page 96
Next 97
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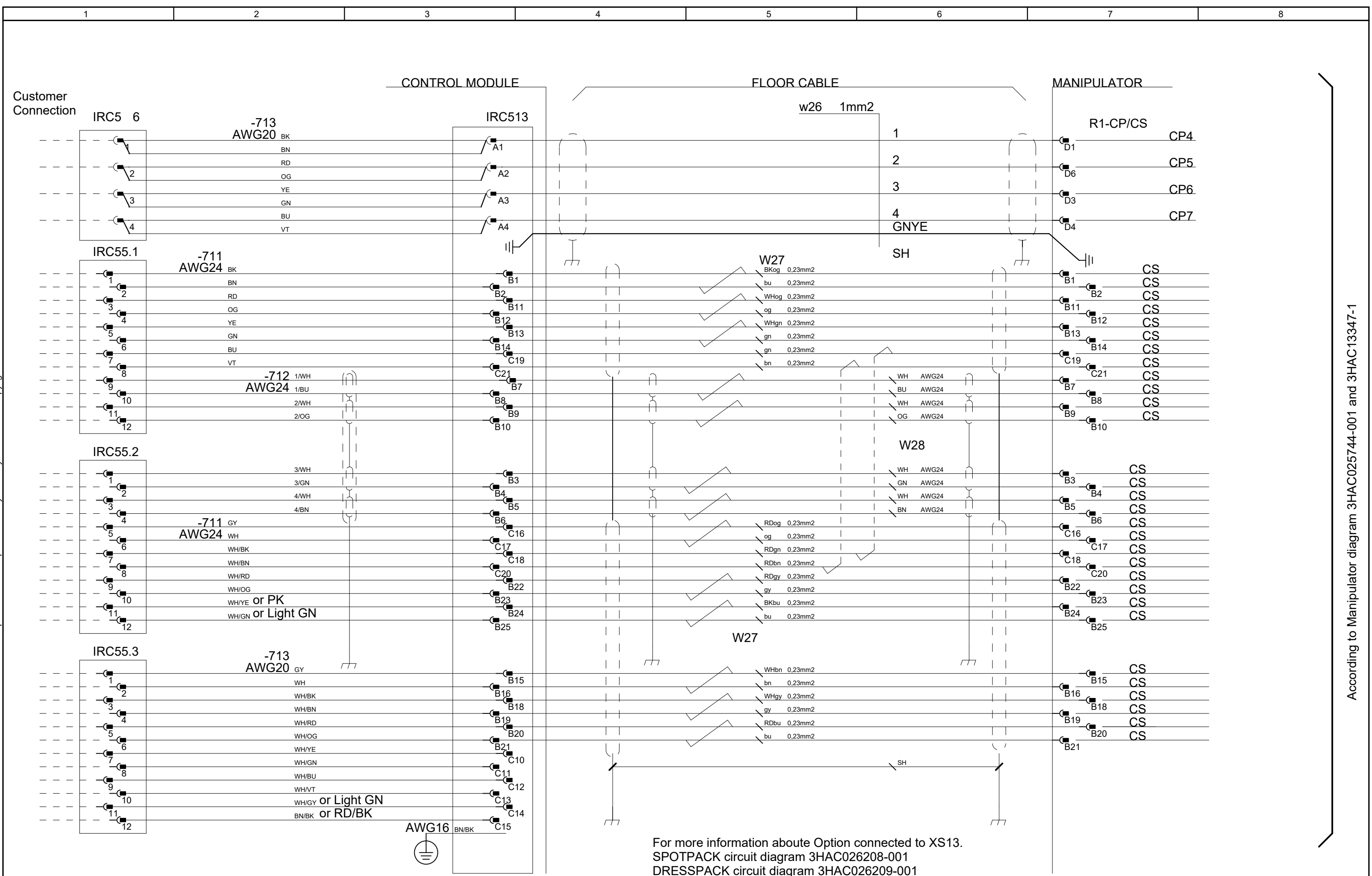
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PMC DESIGN 14 Rel: 23D
 COOLING AXES 1/2
 IRB 6600 - 7600

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Plant: =
 Location: +
 Sublocation: +

Document no. 3HAC026871-020
 Rev. Ind 14
 Page 97
 Next 98
 Total 125



For more information about Option connected to XS13.
 SPOTPACK circuit diagram 3HAC026208-001
 DRESSPACK circuit diagram 3HAC026209-001

According to Manipulator diagram 3HAC025744-001 and 3HAC13347-1

Latest revision:	
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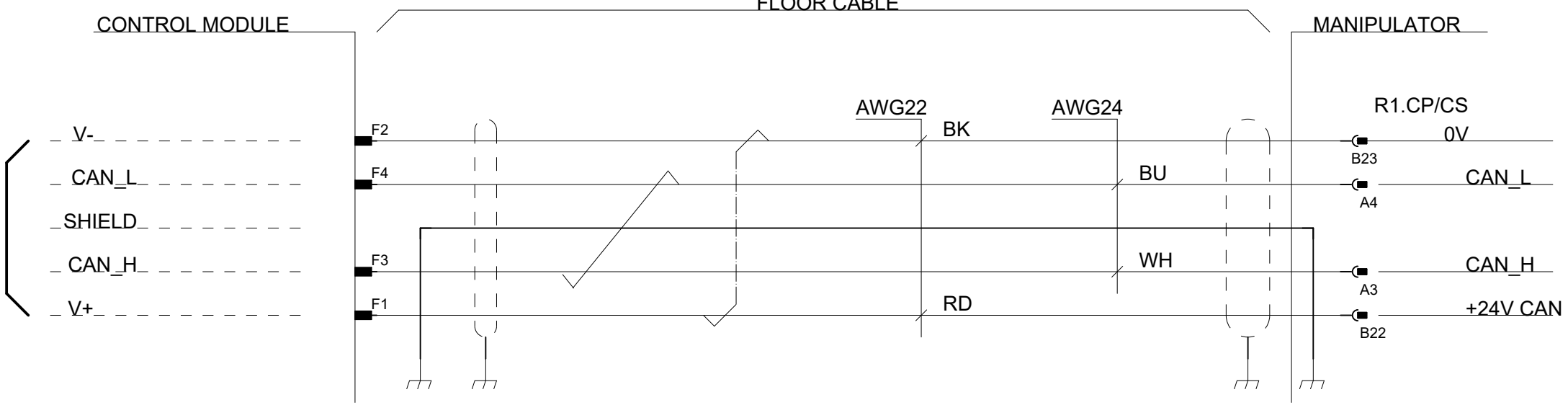


Lab/Office:
RA/RDP

PMC DESIGN 14 Rel: 23D
 CUSTOMER POWER/SIGNAL
 IRB 6600 - 7600

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 98 Next 99 Total 125

Customer Connection
Additional to page 93, 94 and 95

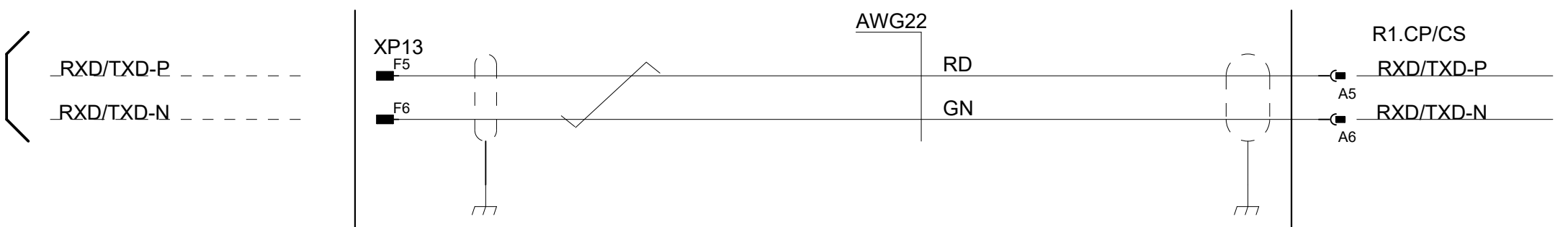


Option: Devicenet connection

(27) / A35 ←

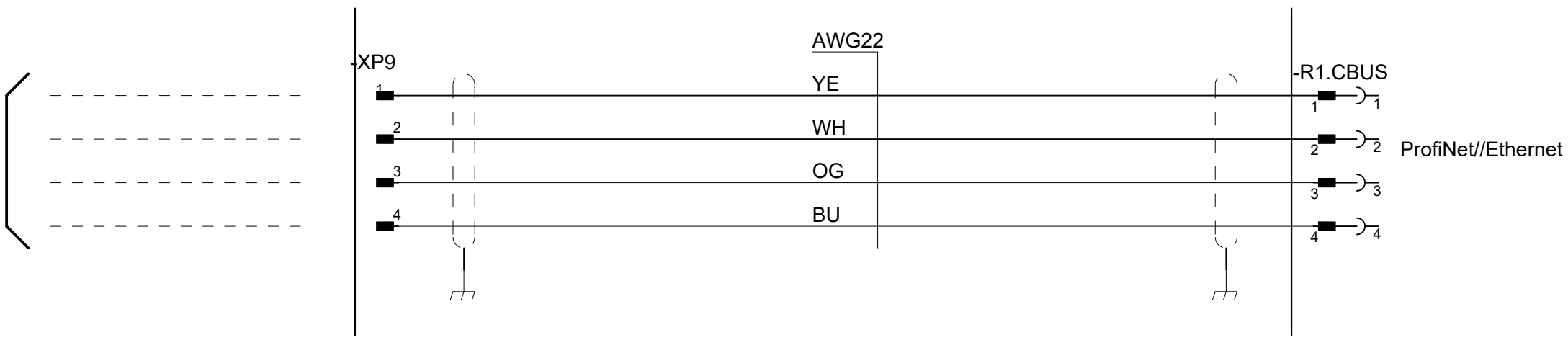
Option: Profibus

/ A33 ←



Option: ProfiNet / Ethernet IP
6600, 6620, 6640, 6650s, 7600

/ ProfiEthernet ←



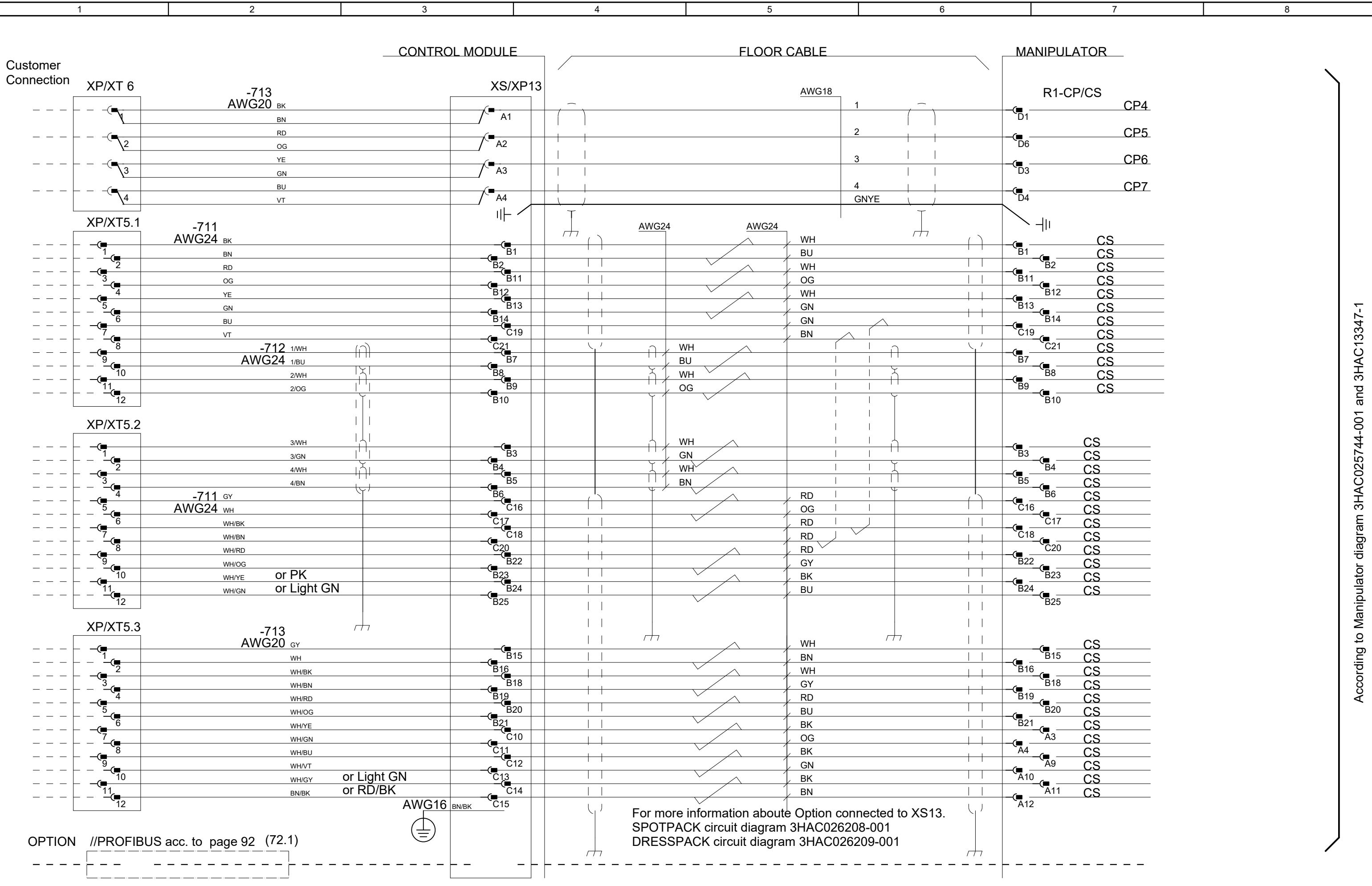
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ABB Lab/Office: PMC DESIGN 14 Rel: 23D
RA/RDP DevNet//IBUS//PBUS ADDITION TO CP/CS
IRB 6600 - 7600

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Document no. 3HAC026871-020	Rev. Ind 14
	Page 99 Next 100 Total 125

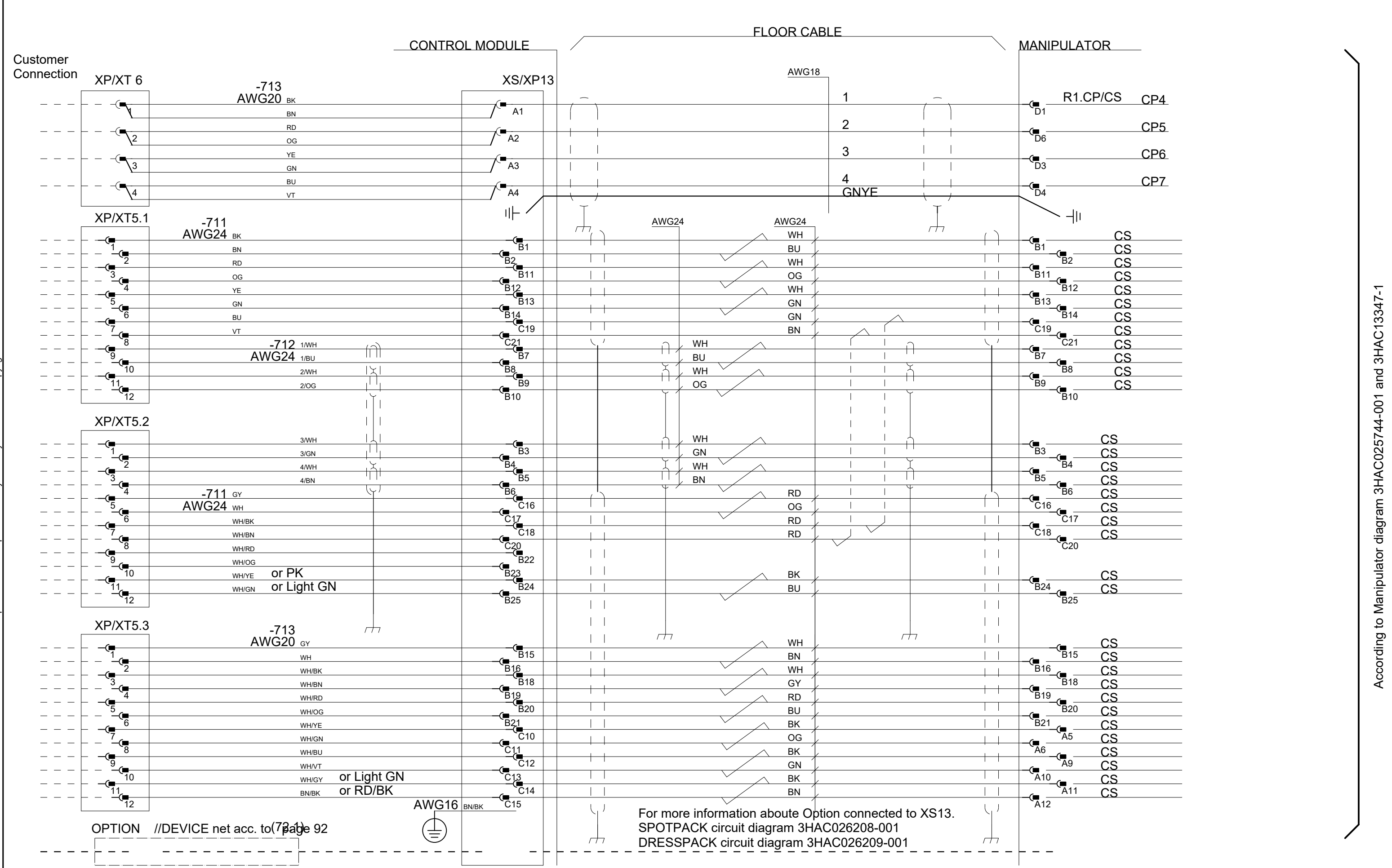
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According to Manipulator diagram 3HAC025744-001 and 3HAC13347-1

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According to Manipulator diagram 3HAC025744-001 and 3HAC13347-1

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RA/RDP

PMC DESIGN 14 Rel: 23D
CUSTOMER POWER/SIGNAL DEVICE NET
IRB 6600 - 7600

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