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Latest revision:		EUROMAP 67		Lab/Office: RMRO RDE1	IRC5 DESIGN 14 Euromap 67 COPYRIGHT page	Status: Approved	Plant: = Location: + Sublocation: +	Document no.	Rev. Ind	Page1
Prepared by, date:T Stalnacke	Approved by, date:SÖ							2019-05-24	3HAC024120-005	01

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1	2	3	4	5	6	7	8																												
	Stomme, ramverk/ Functional equipotential bonding		Slutkontakt/ Make contact, general.		Strömtransformator/ Current transformer.	<p>Column coordinate number on the drawing</p> <p>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 . . .</p> <p>Wire/connector two colour code.</p> <p>Example 1 : WH/RD = White and Red. Example 2 : GNYE = Green and Yellow.</p> <p>Example: Cable with four colour coded wire, square area AWG24 and cable number 709.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">709</td><td style="text-align: center;">BK</td></tr> <tr><td style="text-align: center;">AWG24</td><td style="text-align: center;">BN</td></tr> <tr><td></td><td style="text-align: center;">RD/OG</td></tr> <tr><td></td><td style="text-align: center;">BK/OG</td></tr> </table> <p>Translation table square area from AWG to mm2.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">AWG28</td><td style="text-align: center;">0,093</td><td style="text-align: center;">AWG18</td><td style="text-align: center;">0,93</td></tr> <tr><td style="text-align: center;">AWG26</td><td style="text-align: center;">0,15</td><td style="text-align: center;">AWG16</td><td style="text-align: center;">1,25</td></tr> <tr><td style="text-align: center;">AWG24</td><td style="text-align: center;">0,25</td><td style="text-align: center;">AWG14</td><td style="text-align: center;">2,44</td></tr> <tr><td style="text-align: center;">AWG22</td><td style="text-align: center;">0,34</td><td style="text-align: center;">AWG12</td><td style="text-align: center;">3,02</td></tr> <tr><td style="text-align: center;">AWG20</td><td style="text-align: center;">0,56</td><td style="text-align: center;">AWG10</td><td style="text-align: center;">4,65</td></tr> </table> <p>Run chain presentation starts at sheet 26. The Run chain marked as a wider wire.</p> <p><u>Example: Run chain marked with a wider wire.</u></p> <p><u>Example: Not Run chain marked with a thin wire.</u></p>	709	BK	AWG24	BN		RD/OG		BK/OG	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	
709	BK																																		
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AWG22	0,34	AWG12	3,02																																
AWG20	0,56	AWG10	4,65																																
	Stomme, ramverk/ Functional equipotential bonding		Handmanövrerad brytare, allmän/ Switch manually operated, general.		Likström, DC / Direct current, DC.																														
	Jord, allmän symbol/ Earth , general symbol.		Styrning med spak/ Actuator (operated by lever).		Växelström, AC / Alternating current, AC.																														
	Störningsfri jord/ Functional earthing.		Styrning genom vridning/ Actuator(operated by turning).		Styrning, elektromagnetisk styrdon/ Actuator, by electromagnetic.																														
	Skyddsjord/ Protective earthing.		Styrning genom tryckning/ Actuator(operated by pushing).	<p>Ethernet signal:</p> <p>1. Transmit TX+ or TX- and receive RX+ or RX-</p> <p>2. Unit possible to transmit or receive TX+/RX+ or TX-/RX-</p> <p>3. Ethernet Gigabit signal, transmit pair one MX1+ , MX1- and receive the MX2+ , MX2- If Gigabit transmit pair MX3+ , MX3- and receive pair MX4+ , MX4-</p>																															
	Tvinnade ledare/ Twisted conductors.		Skarvhylsa Through joint																																
	Trippel tvinnade ledare/ Triple twisted conductors.		Filter/ Filter.																																
	Fyrdubbelt tvinnade ledare/ Quadruple twisted conductors.		Lampa/ Lamp.																																
	Tvinnade ledare part A med part B Twisted conductors part A with part B		Kontakthylsa hona/ Socket outlet female.	<p>Harnesses:</p> <p>EUROMP 67 SCC: 3HAC025841-005 EUROMAP 67 SCC: 3HAC026692-001 EUROMAP 67 I/O adapter: 3HAC063906-001 EUROMAP 67 JUMPER PLUGG : 3HAC025837-001 EUROMAP 67 Floor harness: 3hac024328-001</p>																															
	Skärm/ Shield.		Kontaktstift hane/ Pin male.																																

Difference between 2018.09 Rel.18.2 3HAC024120-005 and 3HAC024120-004.

The total circuit drawing are upgraded and adapted to IRC5 rel.15.1-18.2 Design 14.
Differences between the old and the new circuit drawing.

Sh.9 is removed. Opt.pos switch is not available in IRC5 rel.15.1 Design14.
Sh.14 RCH2 have changed direction from + to -.
Sh.14.1 RCH2 have changed direction from + to -.

Sh.15 TEXT: Drive module1 A43.X1 exchange with Contactor board A43.X1 coordinate column 8.
Sh.16.1 new sheet
Sh.24 New computer DSQC1018 added.

Sh.29 New computer DSQC1018 added.

Sh.36 Adapter harness for EMP67 add.
Sh.36.5 Adapter harness for EMP12 add.

Sh.37 new sheet Local I/O Digital base
Sh.39 new sheet Local Digital and Relay I/O
Sh.42 new sheet Local I/O Analogue unit

Sh.44 is removed. Opt.422-1 Interbus-s Slave is not available in IRC5 rel.15.1 Design14.
Sh.45 is removed. Opt.420-1 Profibus DP Slave is not available in IRC5 rel.15.1 Design14.
Sh.47 XT8:1 and XT8:3 is removed, opt.pos.switch is not available in IRC5 rel.15.1 Design14.//18.2 XS13.2 added.

Sh.49 XT8:1 and XT8:3 is removed, opt.pos.switch is not available in IRC5 rel.15.1 Design14.
Sh.51 and sh.52 was removed, option for 2 IMM not possible to order.

References to options who have been removed and presented in other circuit drawings or releases.

- If the option have been expired.
- If the option delivered as spare part only.
- If it's only a customized option.

Following Options refer to 3HAC024120-004 rev.03 : Option: FOR 2 IMM Sh. 51-52.

Following Options refer to 3HAC024120-005 rev.00 : Option: Euromap 12

Following Options refer to 3HAC024120-005 rev.00 : Option: Main coputer/AnybusCC/RS232
Remote I/O unit DSQC350A; Encoder unit DSQC377

20190301 Release 19.A 3HAC024120-005 rev01 (Euromap 12 removed. ref to 3HAC024120-005 rev00)

~~Sh.7 EUROMAP 12 I/O adapter 3HAC063989-001 and 3HAC024226-001 was removed.//~~

Harness EUROMP 67 SCC: 3HAC025841-005 added.
Floor Cable harness 3HAC024120-004 rev03 added

Sh.8 Interface to convertor box removed.

Sh.13 Interruption signals removed.// Text: IF DSQC and If not DSQC added.// interruption point XT31:1,;2, :6 added.// 24VDC:IMM removed coordinate 2.


Sh.14 EMP12 signal removed.

Sh.36 24VDC:IMM coordinate 2 removed.

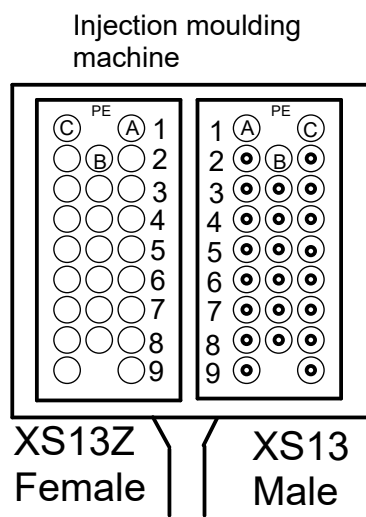
Sh.37 +24V PWR and 0V GND exchanged with +24V_INT1 and +24V_INT2 .

Sh.47 wire 1008 signal change direction 24V_DC:IMM

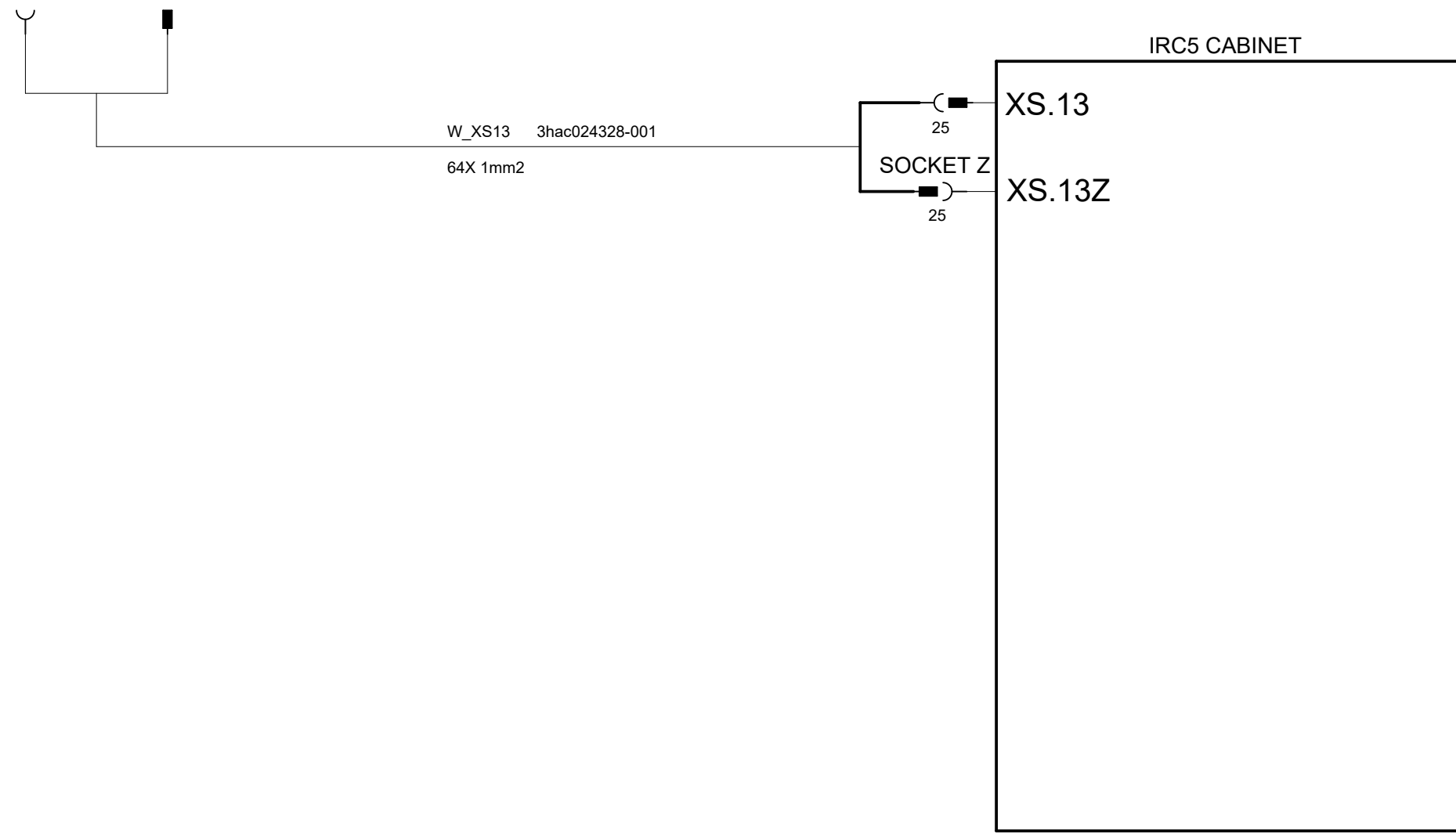
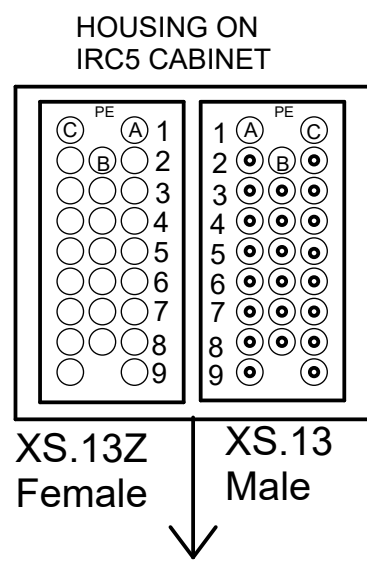
Sh.48 XT31:2 was connected and XT31:1 added// XT31:4 was exchanges with XT31:5 and :6//

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○ SOCKET
● PIN



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IRC5 DESIGN 14 Euromap 67
Interface IRC5 and Injection moulding machine

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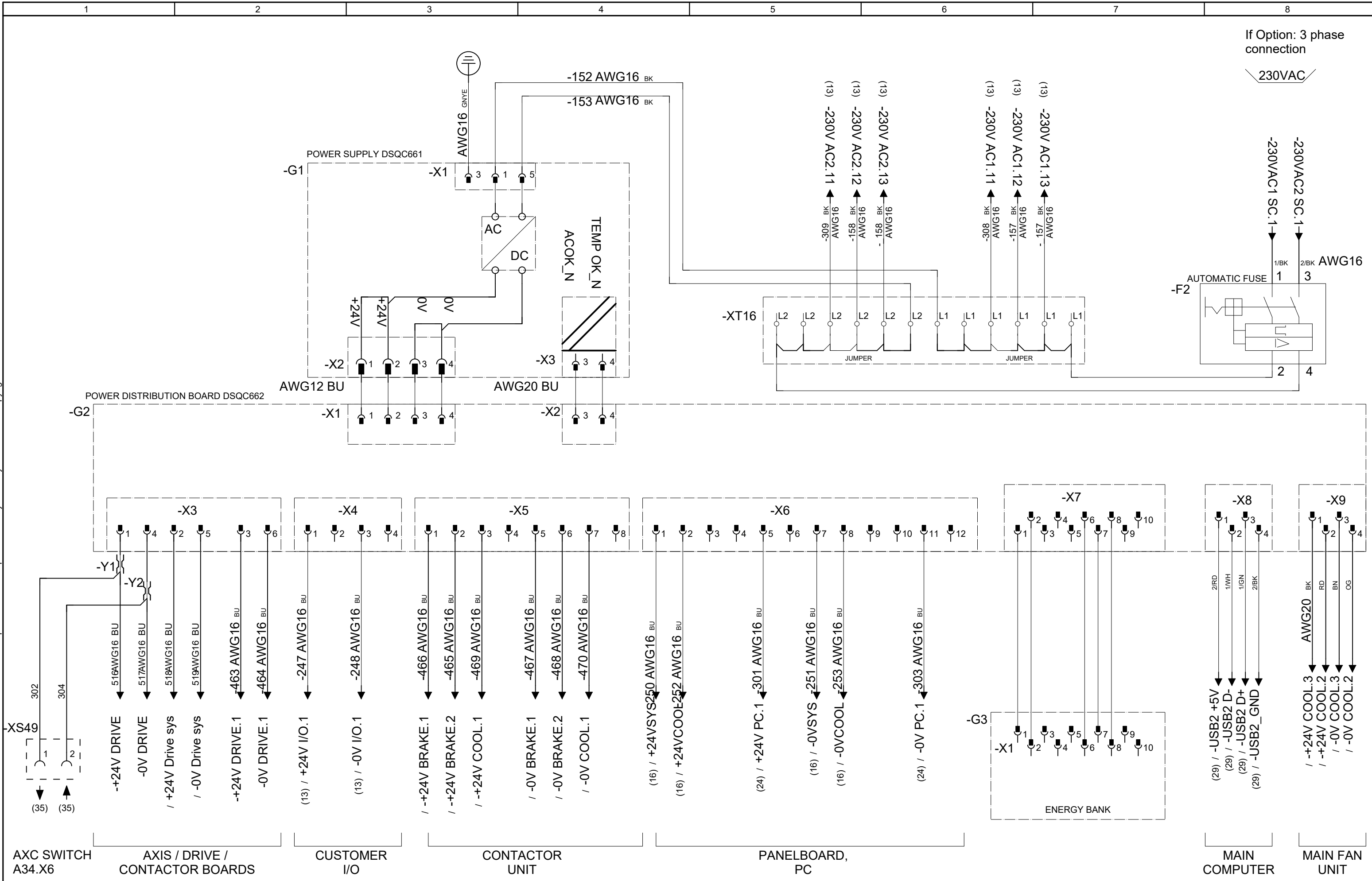
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-24K2	Contactora	47					
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-A21	PANEL BOARD	22					
-A21-233	ES panel 2:A	20					
-A21-237	ES panel 1:A	20					
-A21-S21	2-MODE SELECTOR	20					
-A21-S21.1	3-MODE SELECTOR	20					
-A21-S21.2	MOTOR ON PB	20					
-A21-S21.3	EMERGENCY PB	20					
-A23	OPTION:STATUS LED ON FRONT	16					
-A31	MAIN COMPUTER	24					
-A31	Main computer	29					
-A31.2	DeviceNet M/S DSQC1006	32					
-A32	OPTION: 232/ Expansion board SERIE DSQC1003	29					
-A34	ETHERNET SWITCH A34 opt. MULTI MOVE 604-1/2	35					
-ETH_FPU	FLEXPENDANT	21.1					
-F2	AUTOMATIC FUSE	11					
-G1	POWER SUPPLY DSQC661	11					
-G2	POWER DISTRIBUTION BOARD DSQC662	11					
-G3	ENERGY BANK	11					
-G6	DEVICENET POWER SUPPLY	13					
-I/Ox	Digital I/O Base module	37					
-I/Ox	Relay I/O Add on module	39					
-S21	2-MODE SELECTOR	18					
-S21.1	3-MODE SELECTOR	18					
-S21.2	MOTOR ON PB	18					
-S21.3	EMERGENCY PB	18					
-XS13.2	(XP13.2)	47					

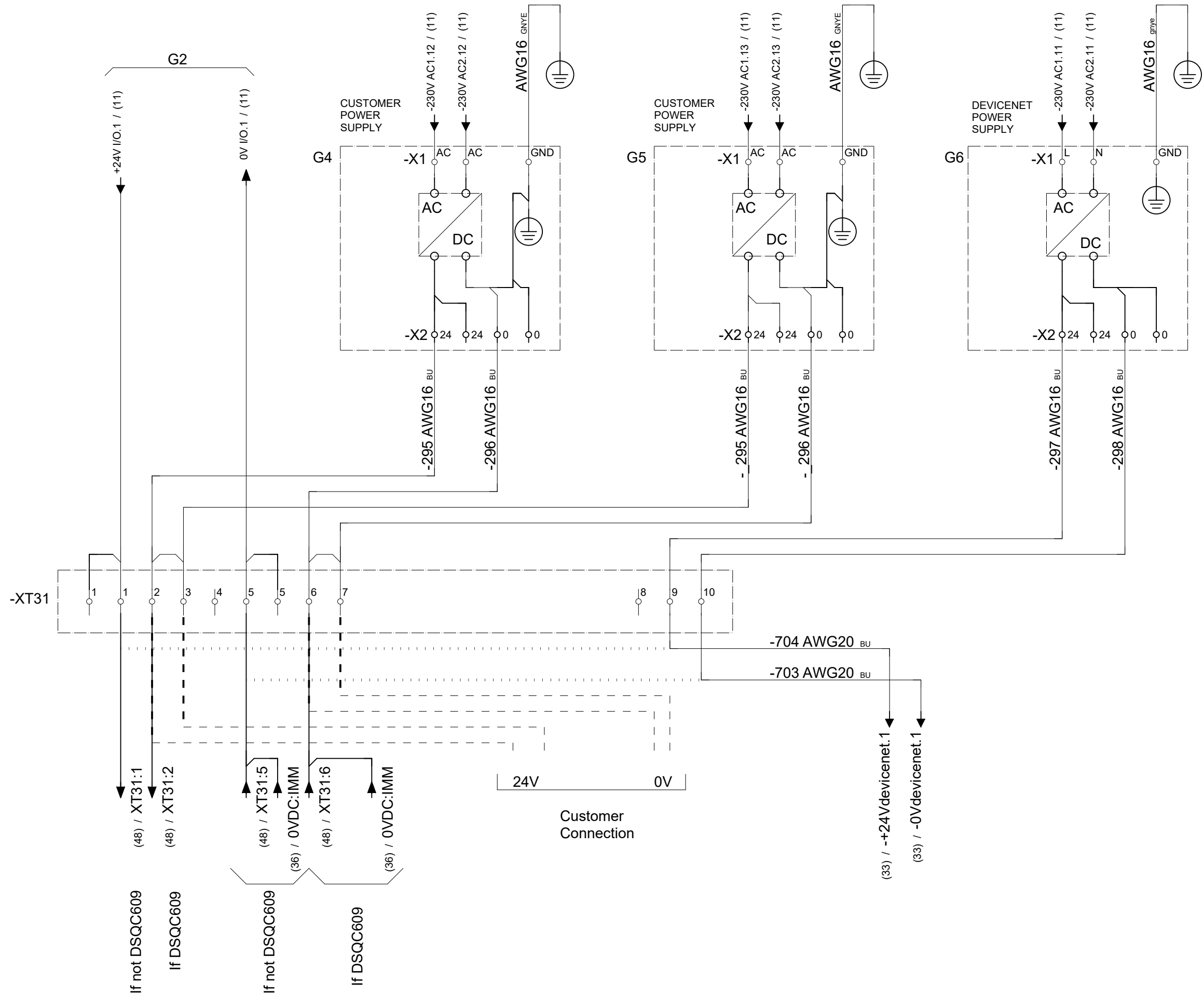
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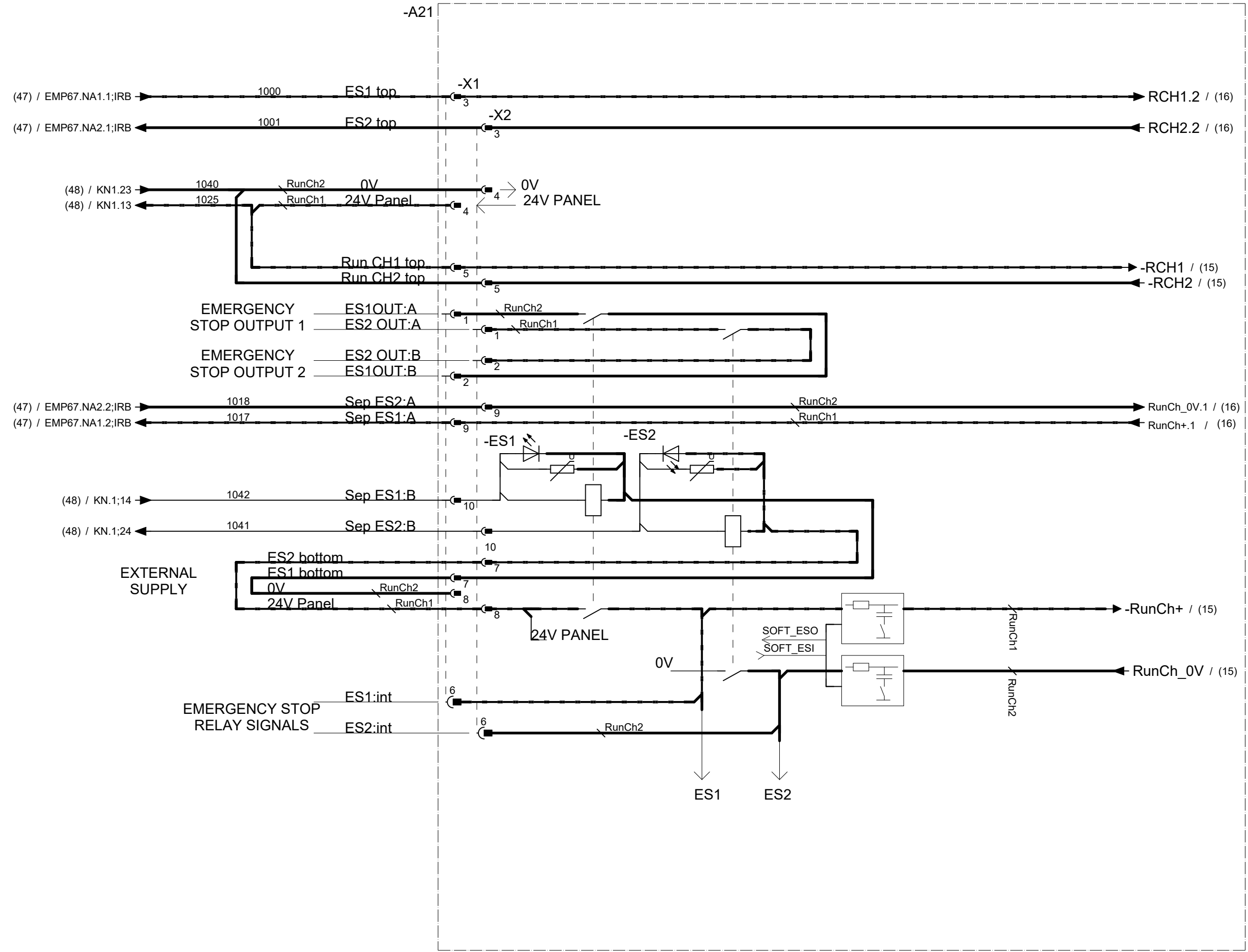
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IRC5 DESIGN 14 Euromap 67
OPT:POWER SUPPLY DSQC609 XT31, G4, G5, G6

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PANEL BOARD Sh 1 of 3



FPU

EXTERNAL CONTROL PANEL EM. PB

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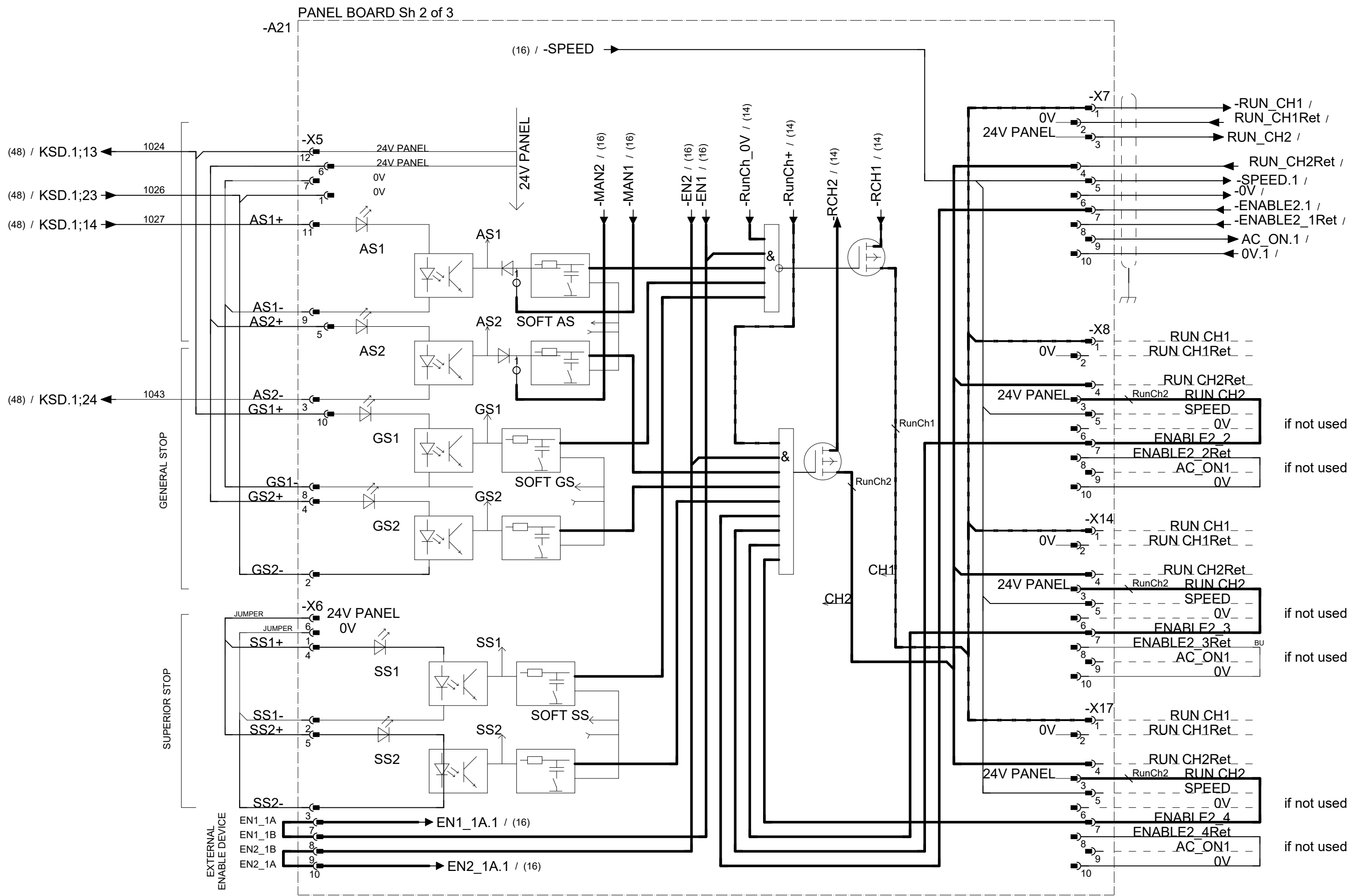


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IRC5 DESIGN 14 Euromap 67
 RUN CHAIN and PANEL BOARD A21 part one

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Contactor board A43.X1
 Ref: to circuit diagram
 3HAC024480-011

if not used Drive module2 A43.X1

if not used Drive module3 A43.X1

if not used Drive module4 A43.X1

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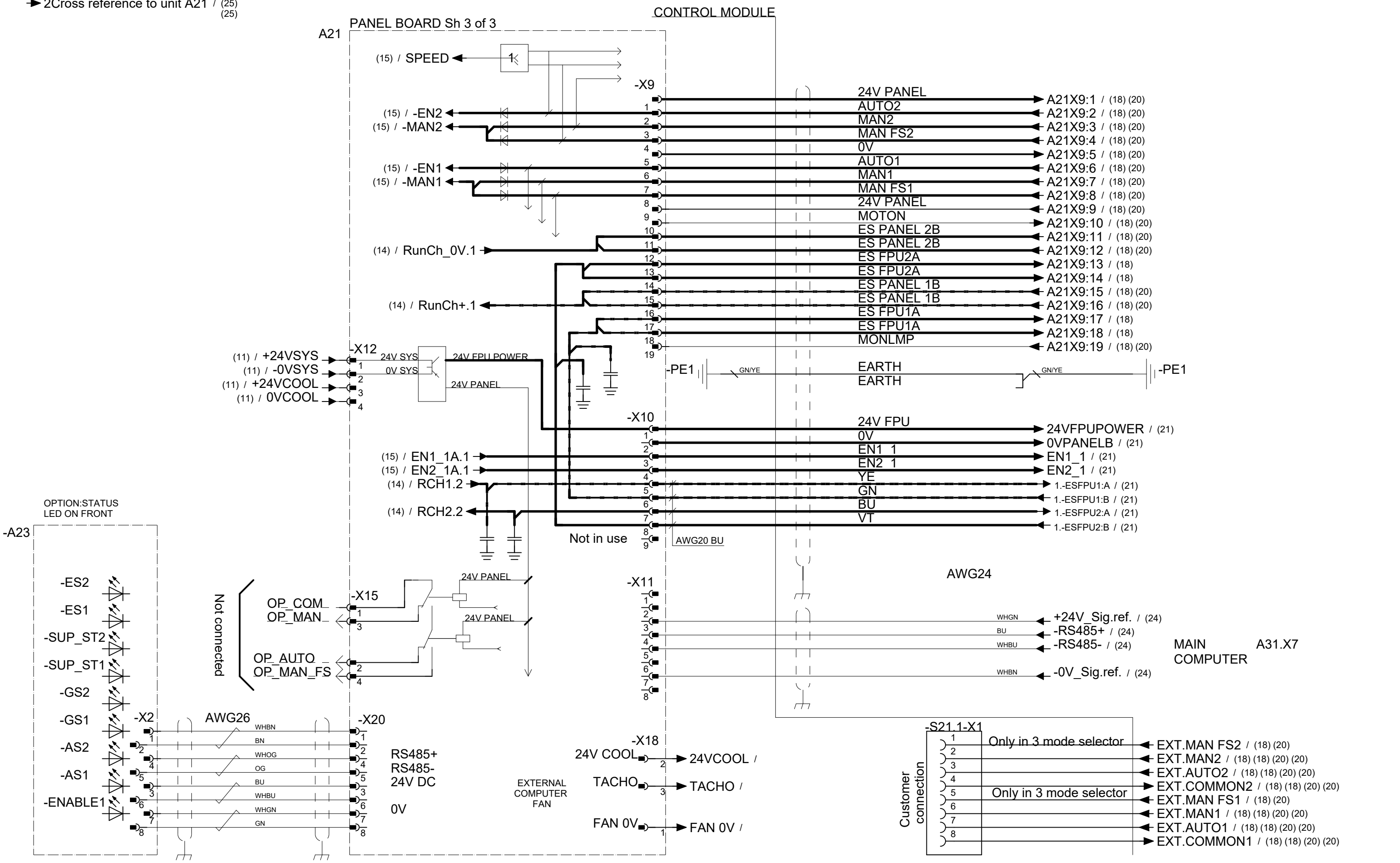


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 RUN CHAIN and PANEL BOARD A21 part two

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➔ 2Cross reference to unit A21 / (25)
 (25)
 (25)



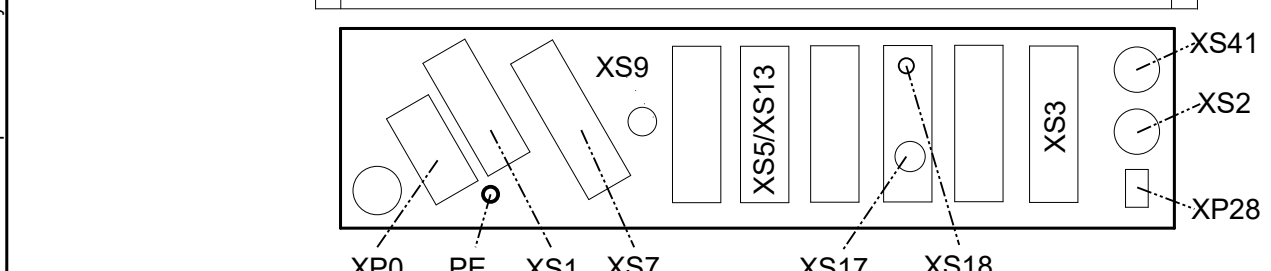
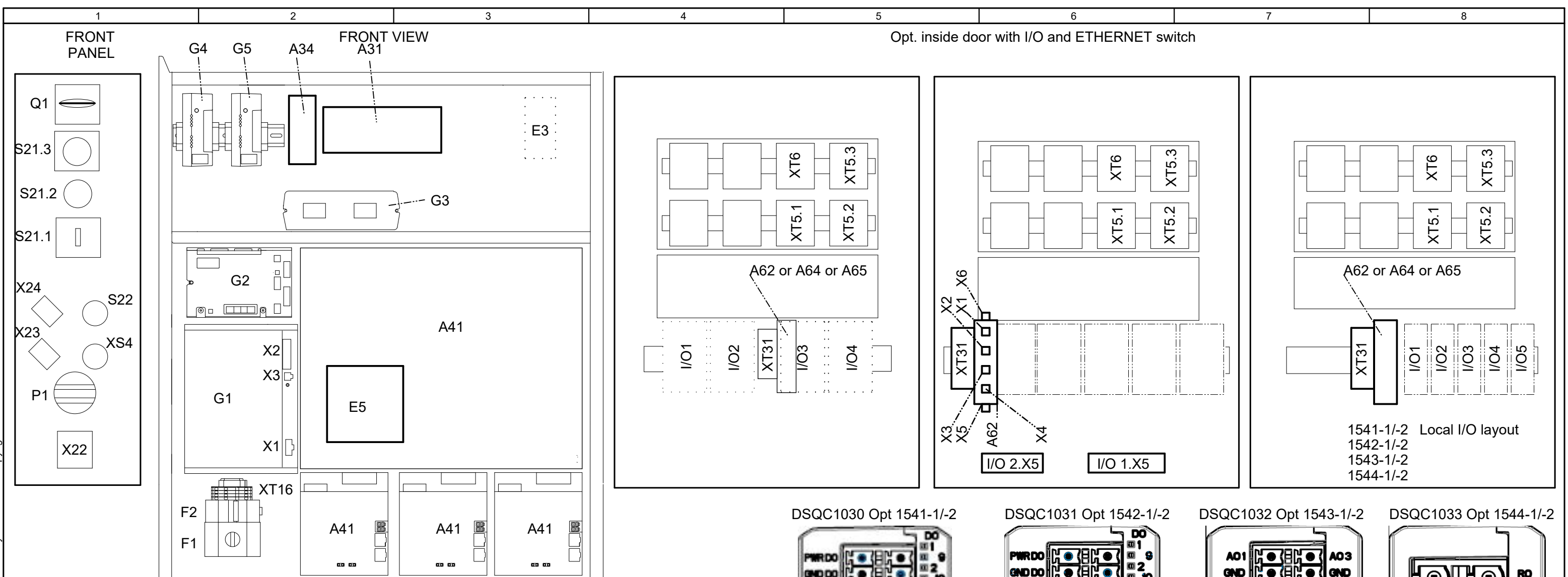
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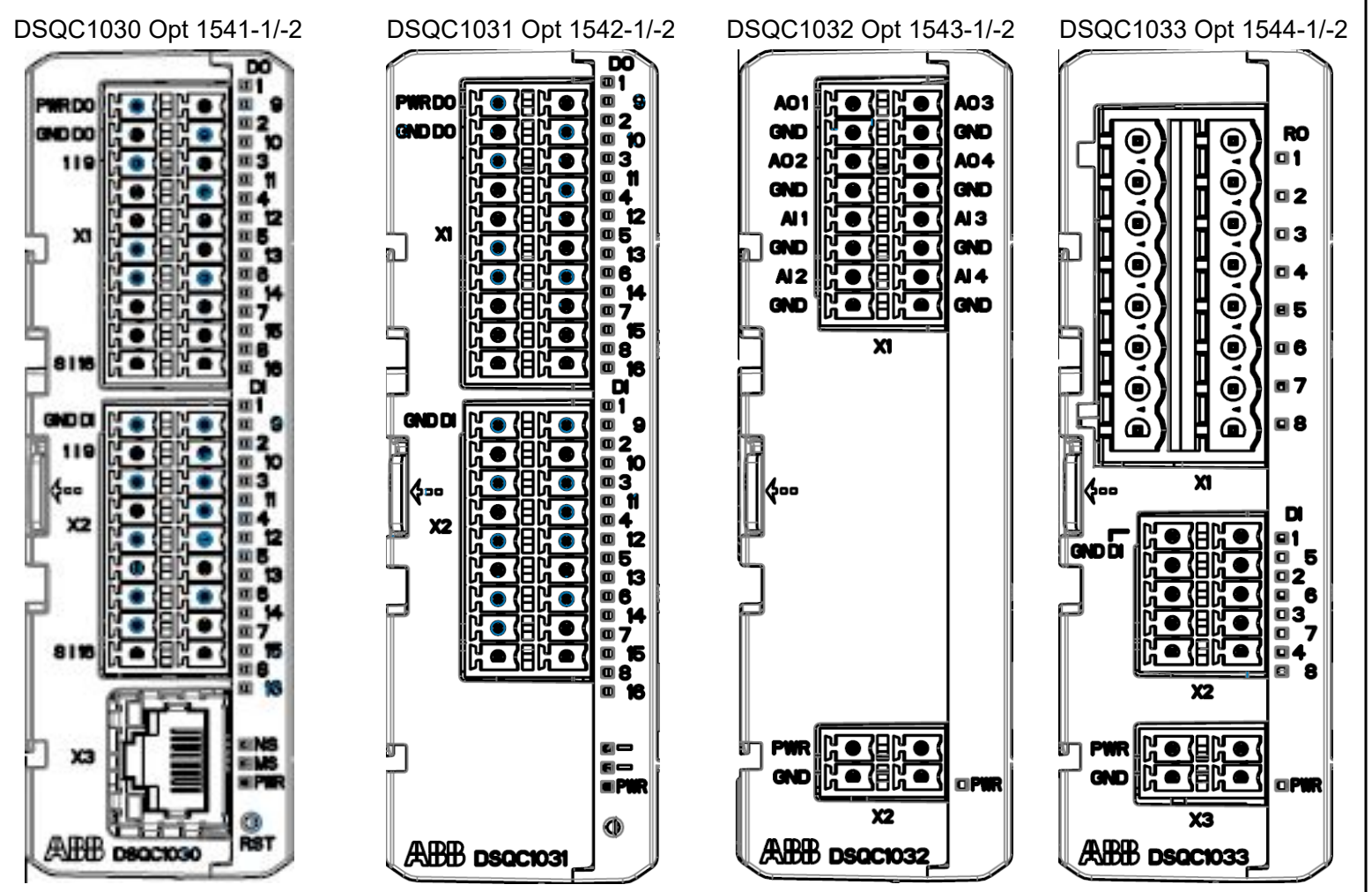


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 IRC5 DESIGN 14 Euromap 67
 RUN CHAIN and PANEL BOARD A21 part three

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Denomination	Unit	Pos. No	Opt. No
Digital 24 VDC		I/O 1-4	716-1
AD Combi I/O		I/O 1-4	717-1
Digital with relay		I/O 1-4	718-1
Analog 4 in/4 out		I/O 1-4	719-1
Profibus DP Slave		I/O 1-4	720-1
Interbus-S Slave		I/O 1-4	722-1
CC-link slave		I/O 1-4	723-1
ENC unit		I/O 1-4	726-1
Digital Base 16in/16out		I/O 1	1541-1/-2
Digital Add on 16in/16out		I/O 2-5	1542-1/-2
Analogue Add on 4in/4out		I/O 2-5	1543-1/-2
Relay Add on 8RO/8DI		I/O 2-5	1544-1/-2
Ethernet switch	A34		604-1/-2
Ethernet switch	A62		901-1
Ethernet switch	A64		1341-1
Ethernet switch	A65		941-1



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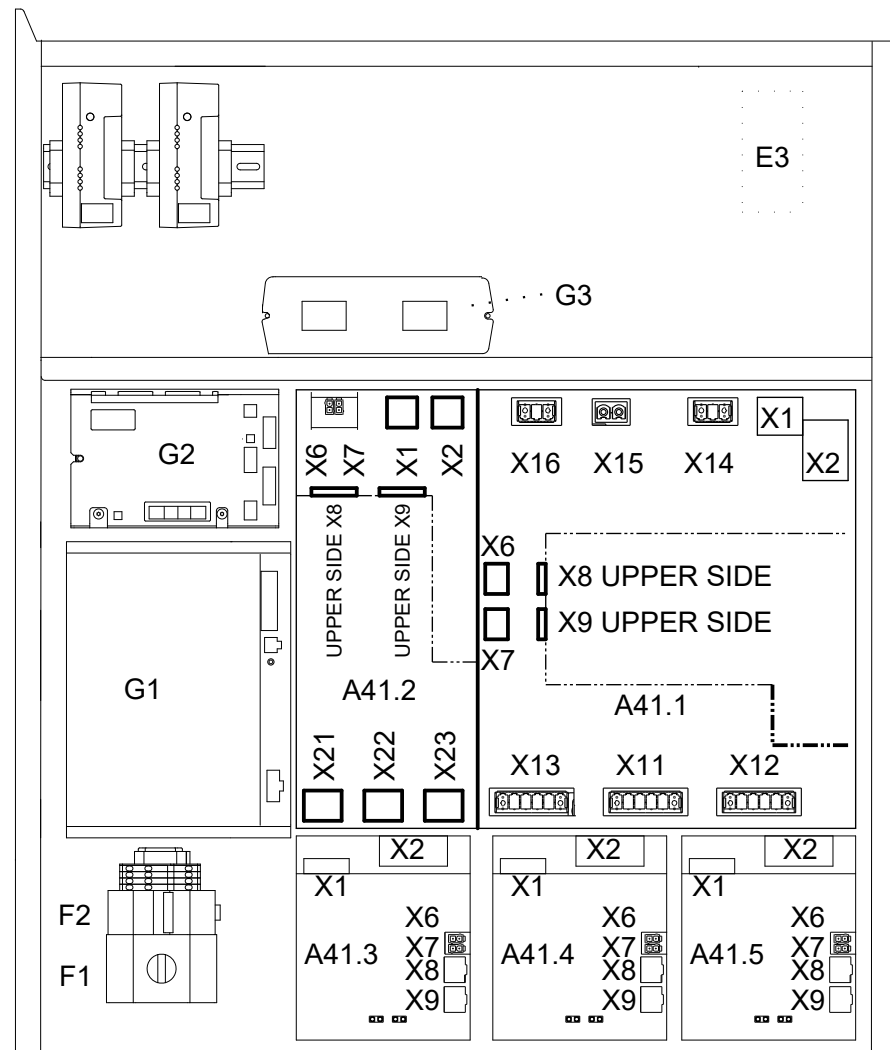


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 IRC5 DESIGN 14 Euromap 67
 FRONT VIEW OF SINGLE CABINET MDU HV

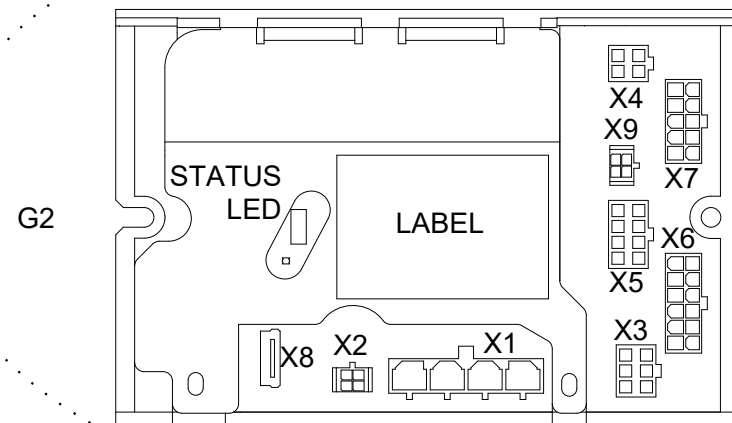
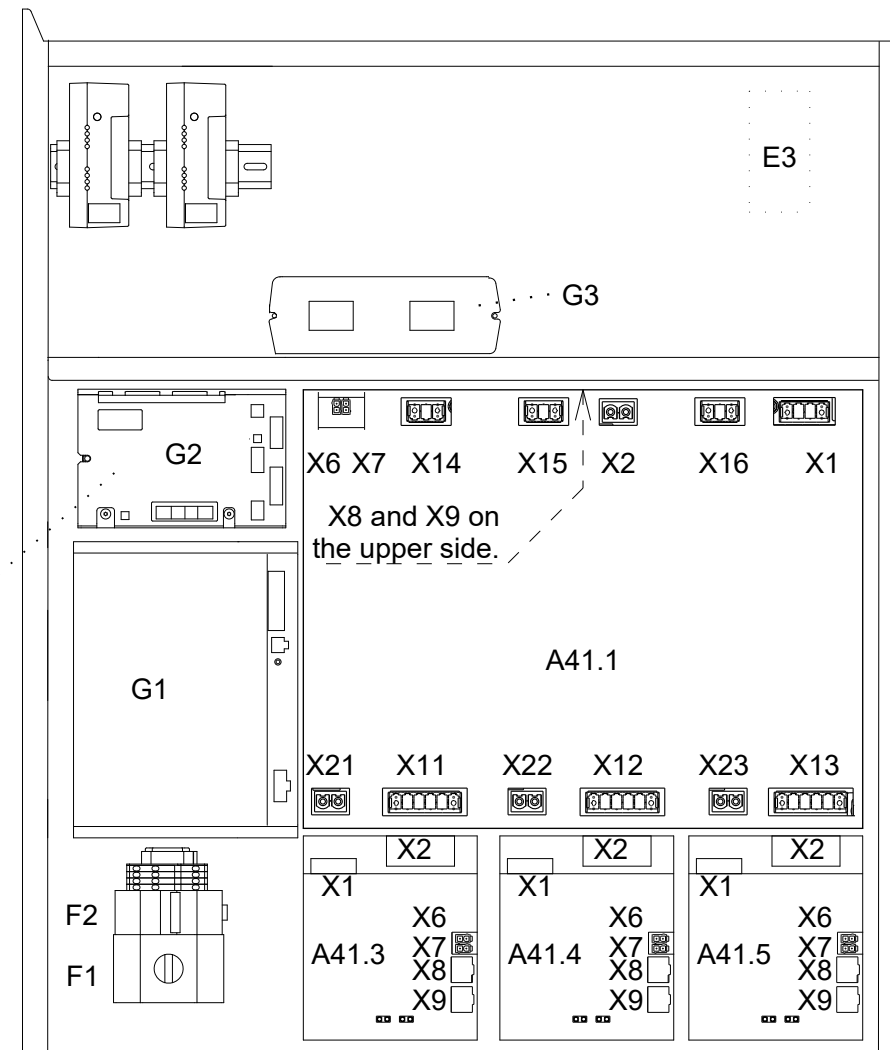
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FRONT VIEW
 MAIN DRIVE UNIT FOR IRB 120 - 1600
 LV Low voltage



FRONT VIEW
 MAIN DRIVE UNIT FOR IRB 2400 - 76XX
 HV High voltage



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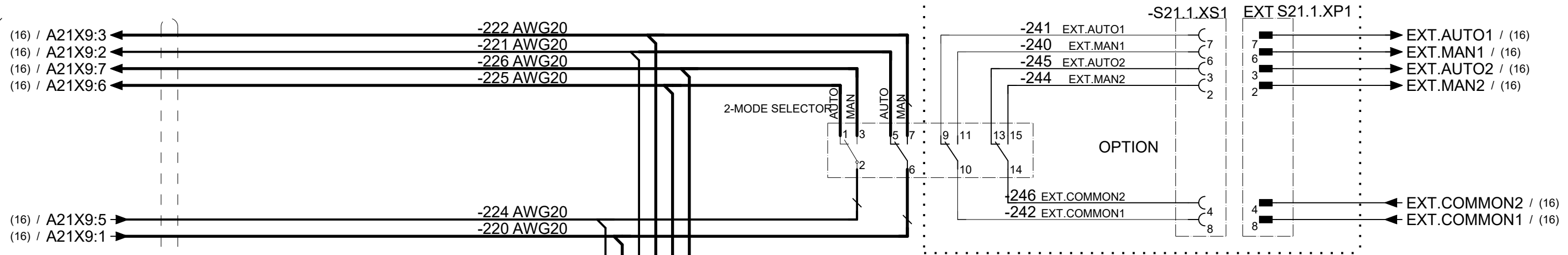


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 IRC5 DESIGN 14 Euromap 67
 FRONT VIEW OF SINGLE CABINET MDU LV and HV

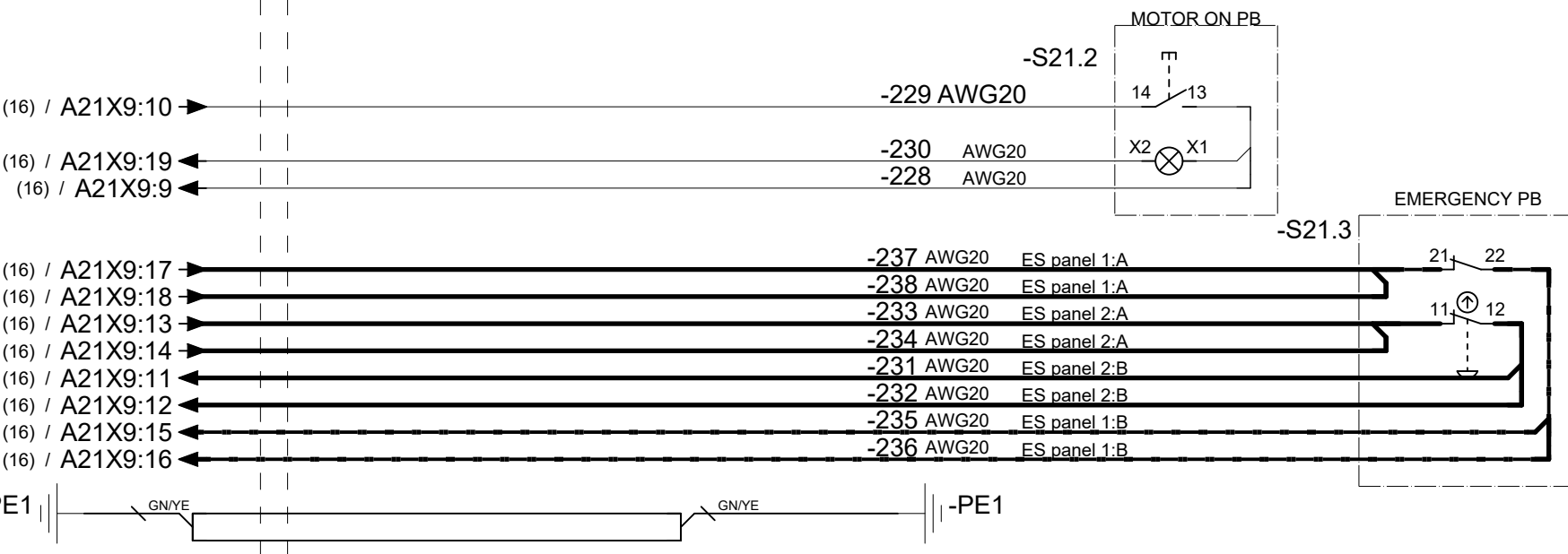
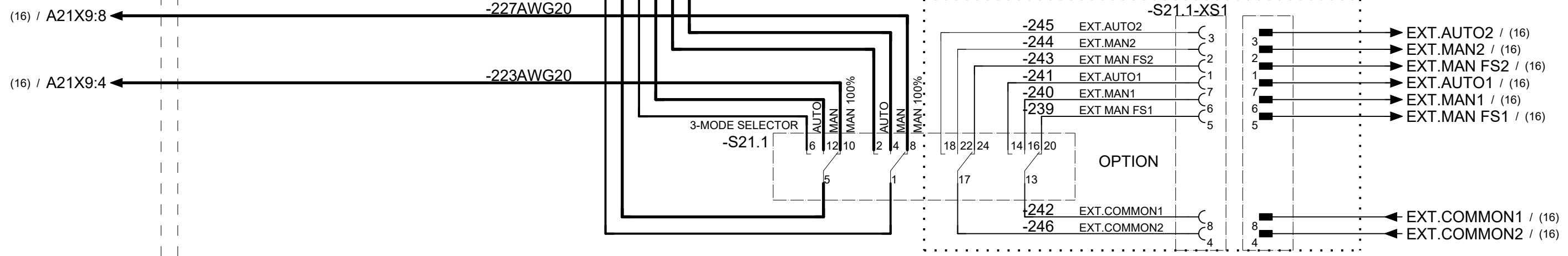
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→ 3Cross reference to S.21 / (25)
(25)
(25)
(25)

Option:Run chain Operating, 2 Mode Selector



Option:Run chain Operating, 3 Mode Selector



A21 PANEL BOARD

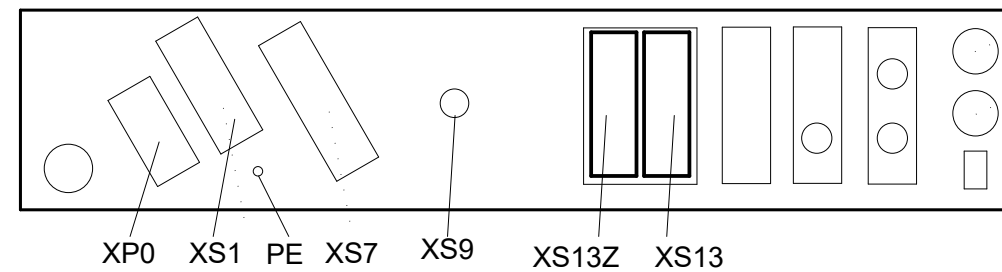
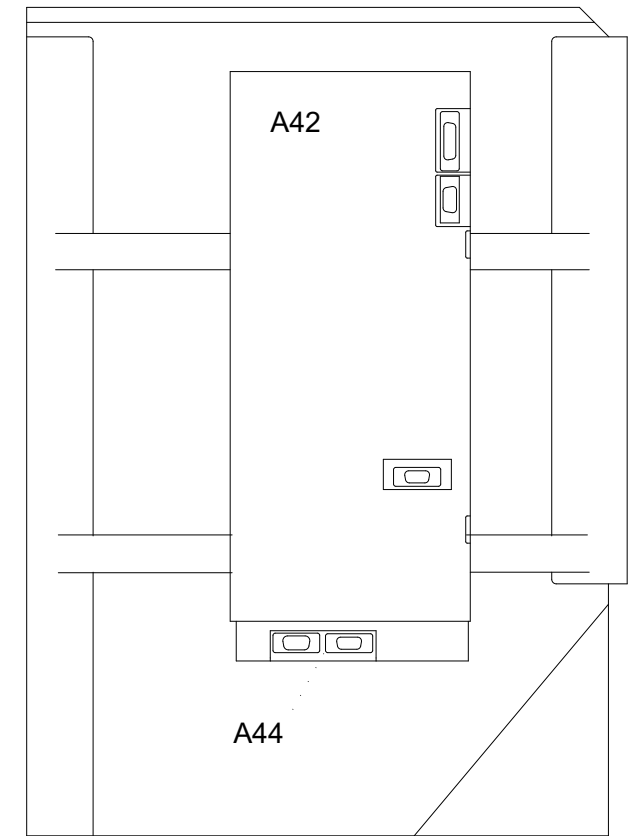
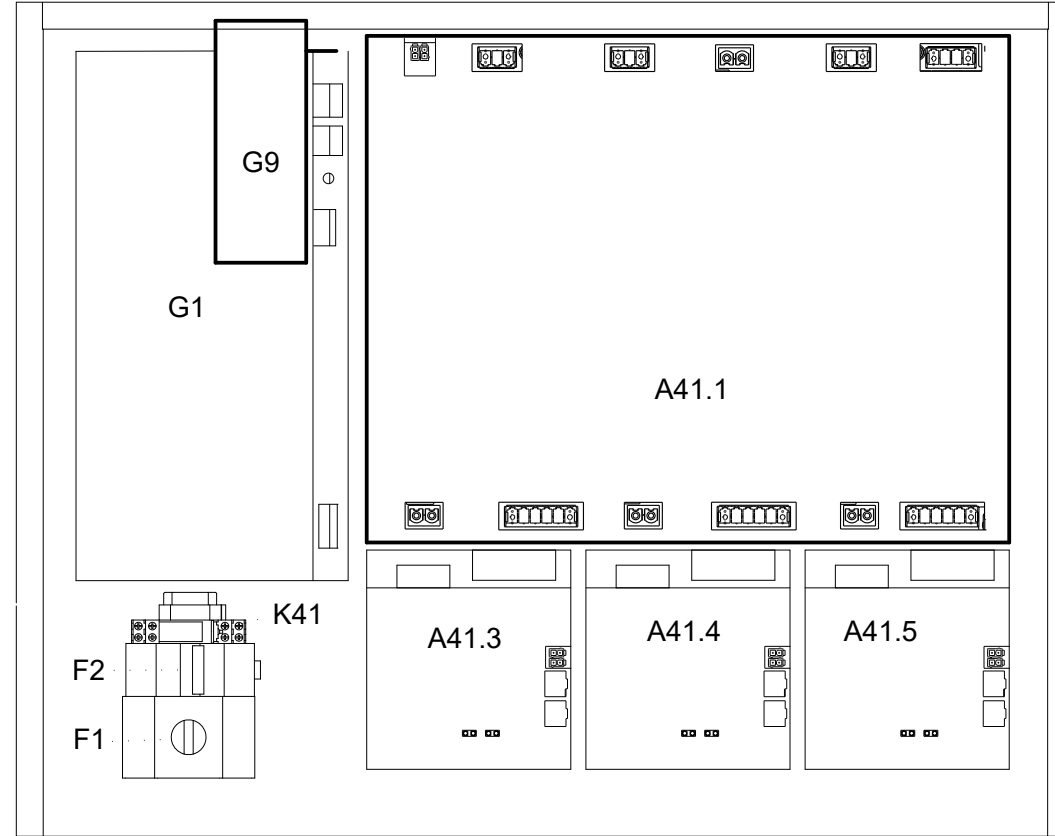
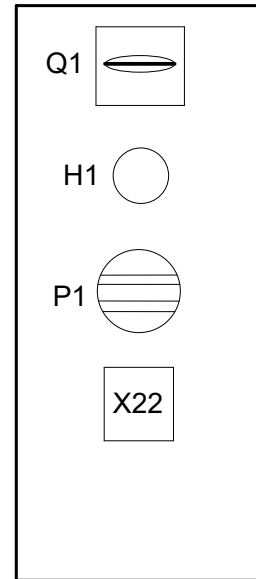
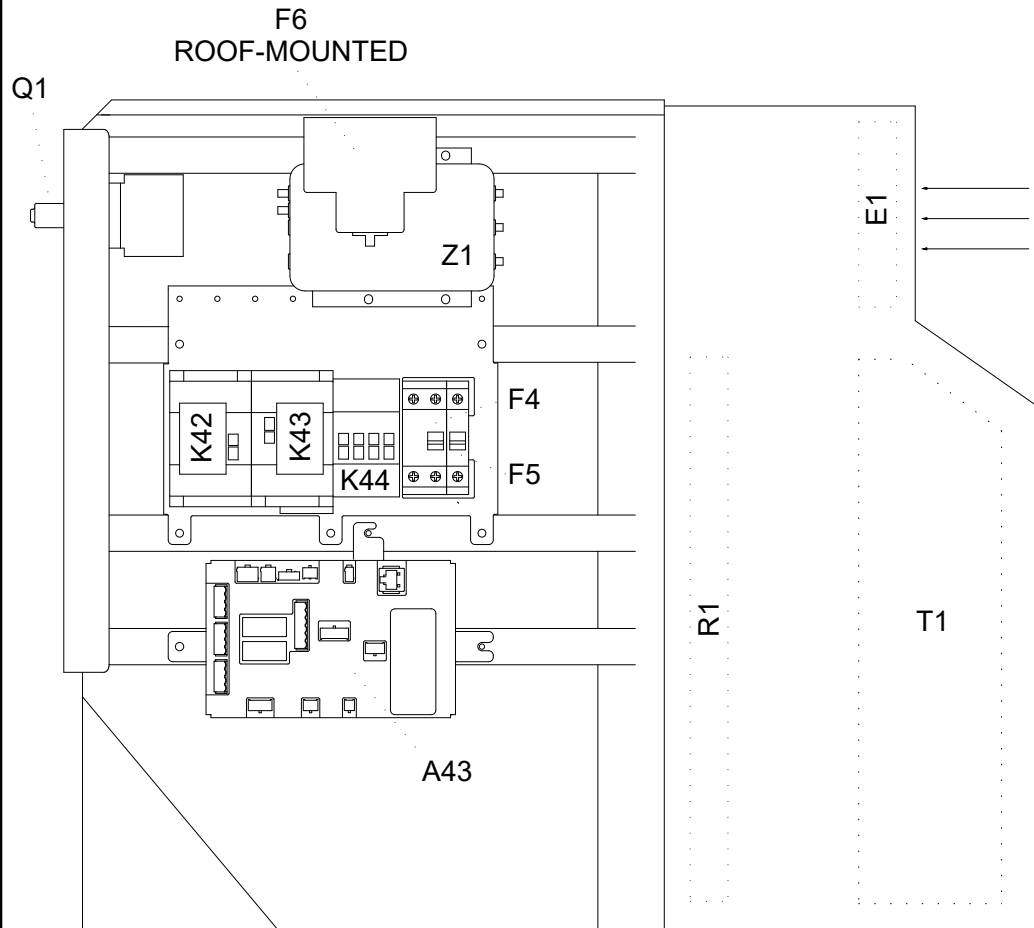
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Prepared by, date: T Stalnacke	Approved by, date: SÖ 2019-05-24					Document no. 3HAC024120-005	Rev. Ind 01

LEFT VIEW

FRONT PANEL

FRONT VIEW

RIGHT VIEW



XS41
XS2

Latest revision:

EUROMAP 67



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IRC5 DESIGN 14 Euromap 67
VIEW OF DRIVE MODULE CABINET

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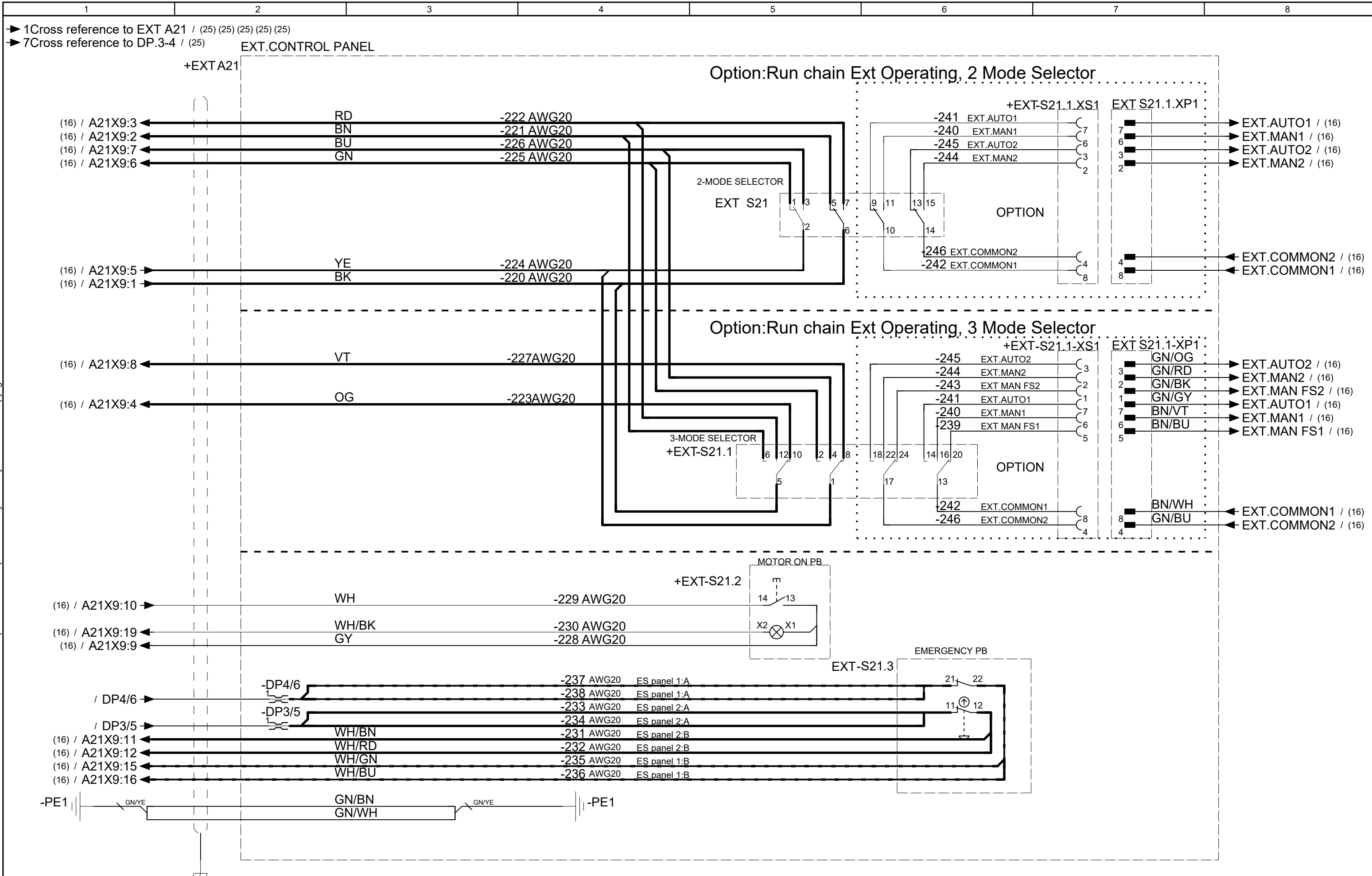
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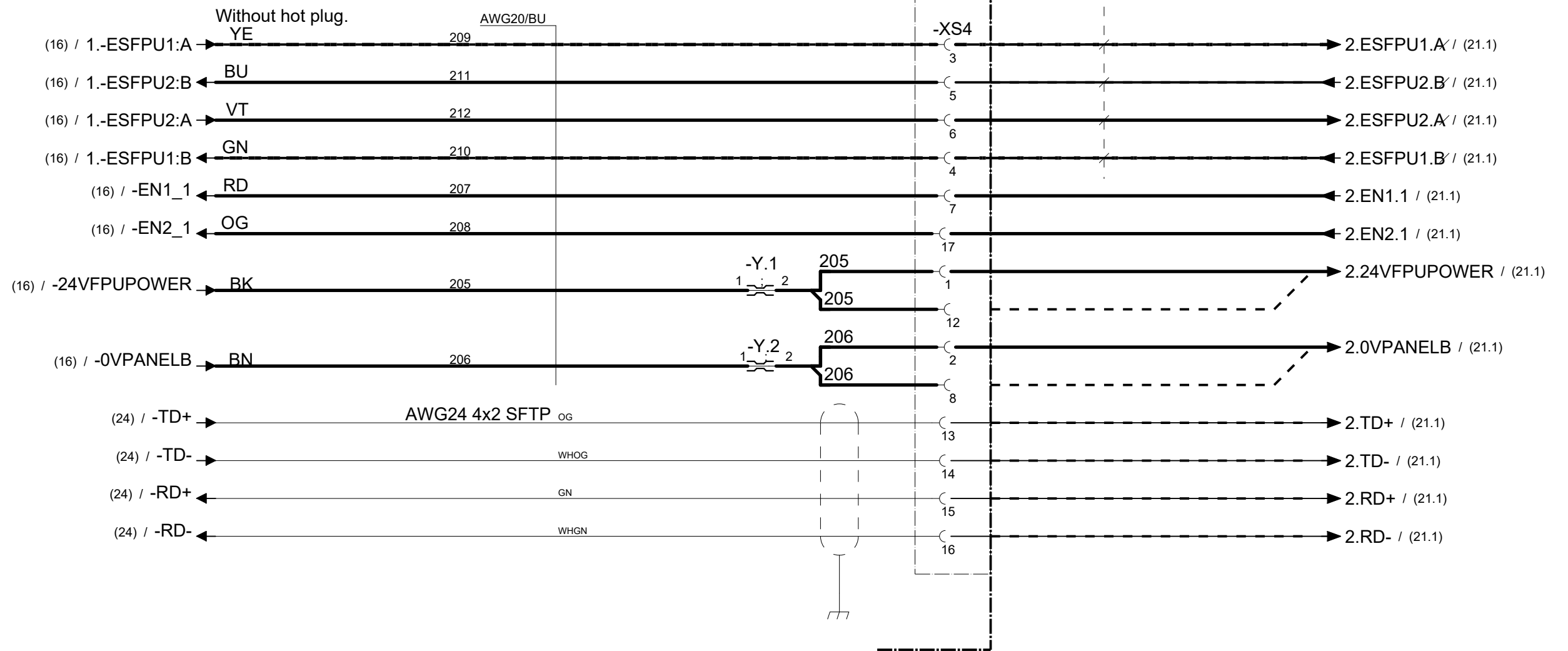
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→ 4 Cross reference to Y.1 / (25)
 → 6 Cross reference to XS.4 / (25) (25)

CONTROLLER

PANEL BOARD A21-X10

MAIN COMPUTER A31.X3



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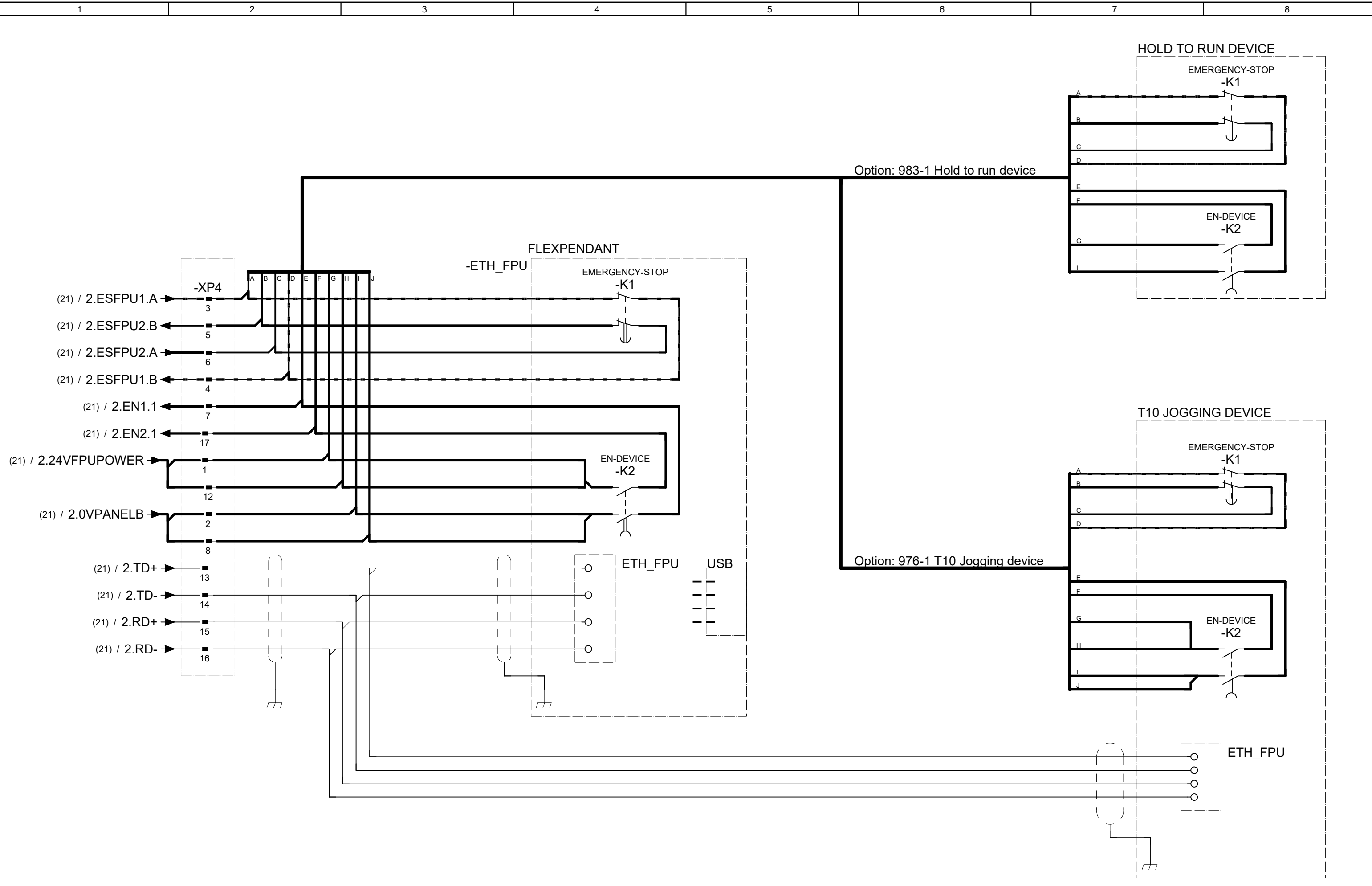


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 IRC5 DESIGN 14 Euromap 67
 FPU, FLEXPENDANT and option HOT PLUG

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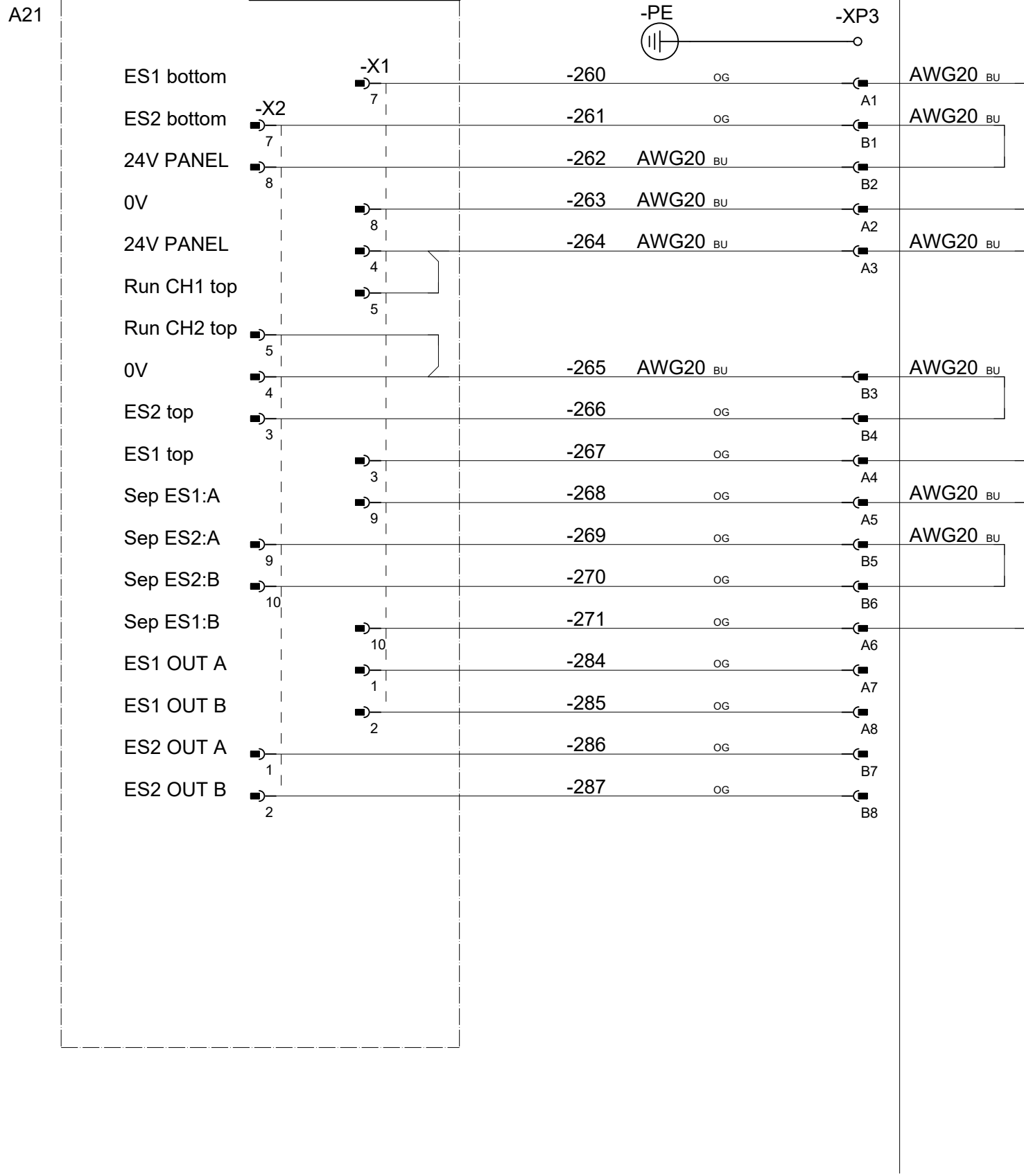
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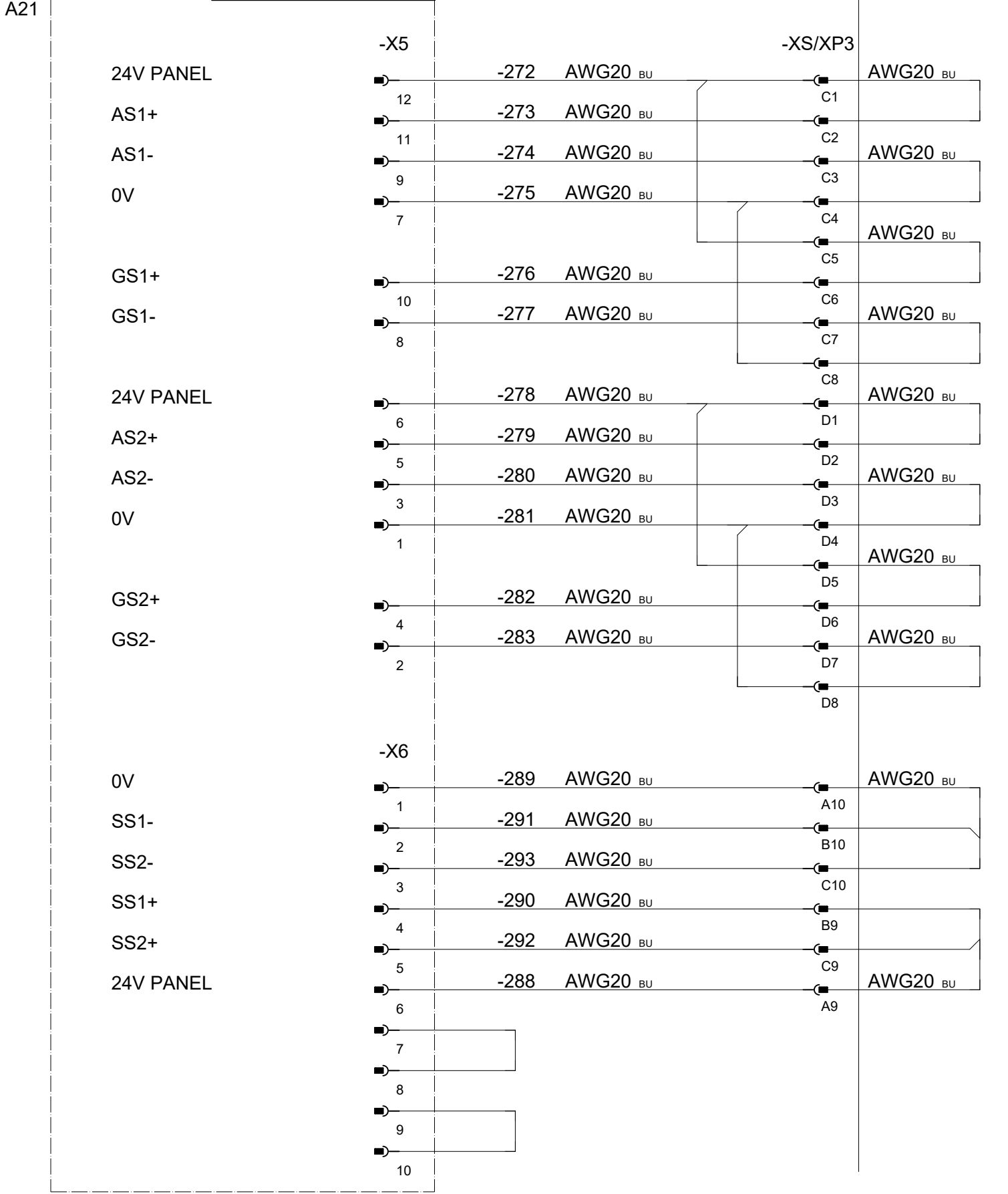


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PANEL BOARD → 2. See pages /



PANEL BOARD → 1. See pages /



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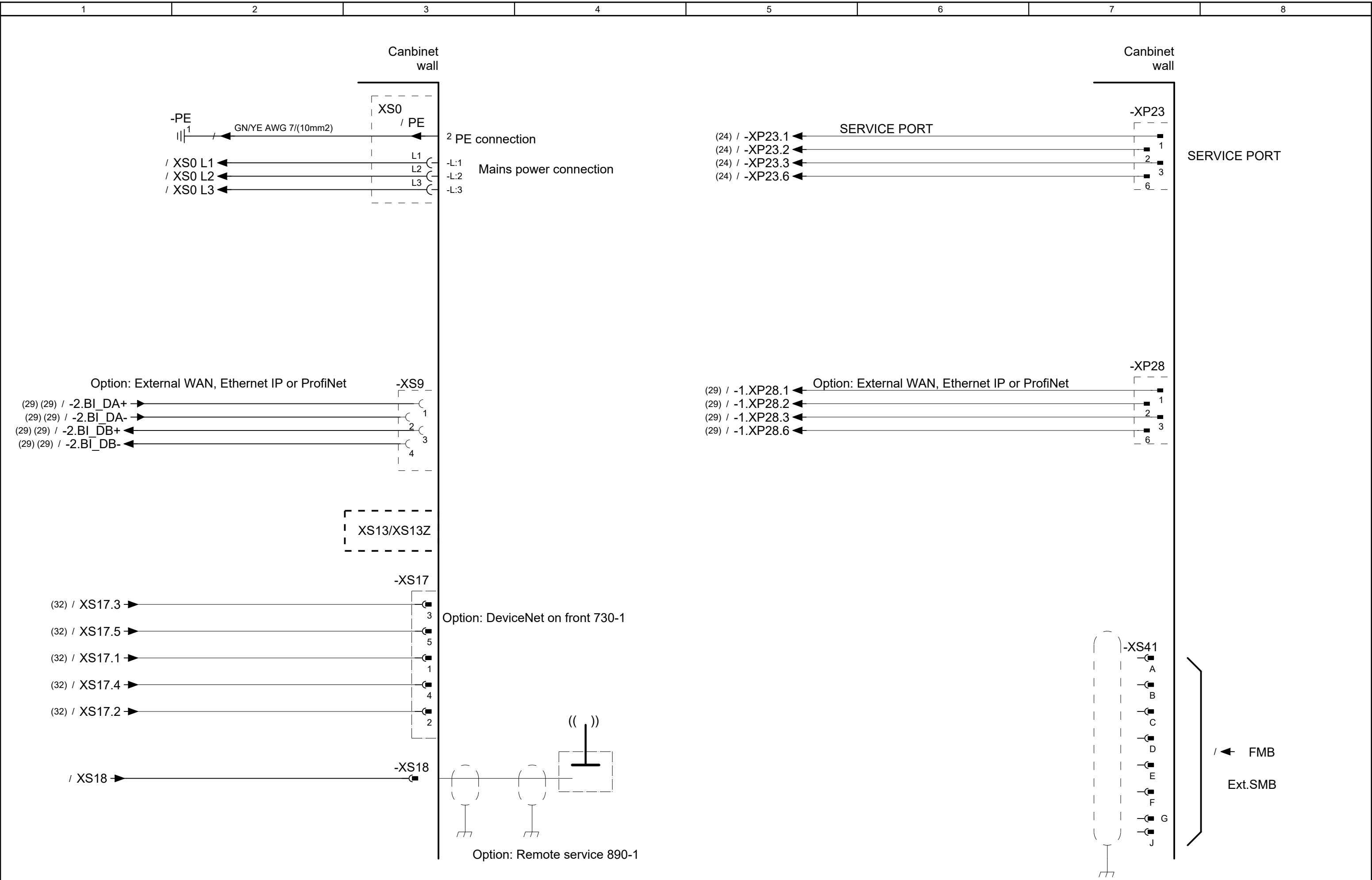


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 PANEL BOARD A21 Opt:EXT.CUSTOMER. CONNECT.
 SYSTEM SIGNALS

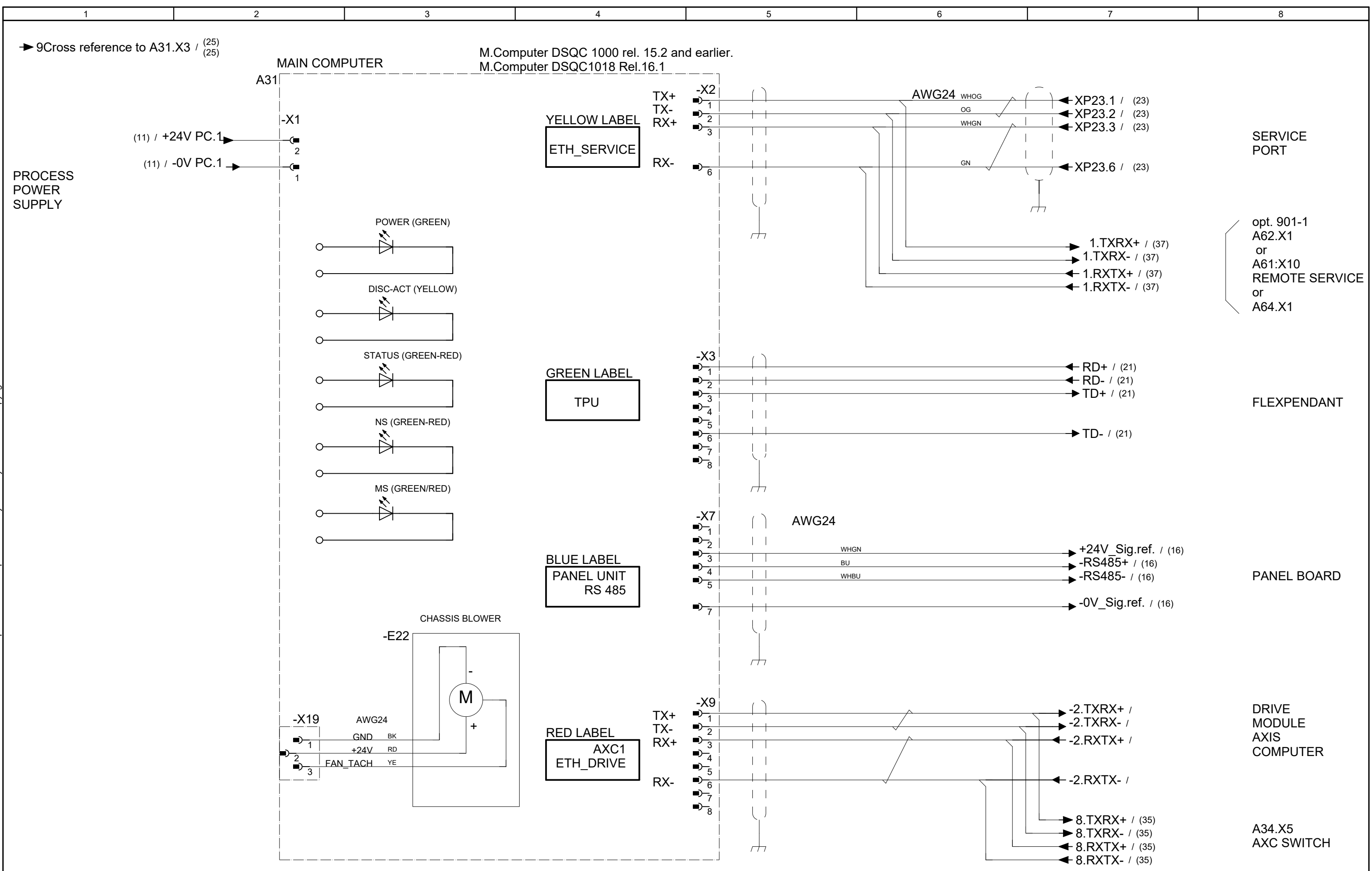
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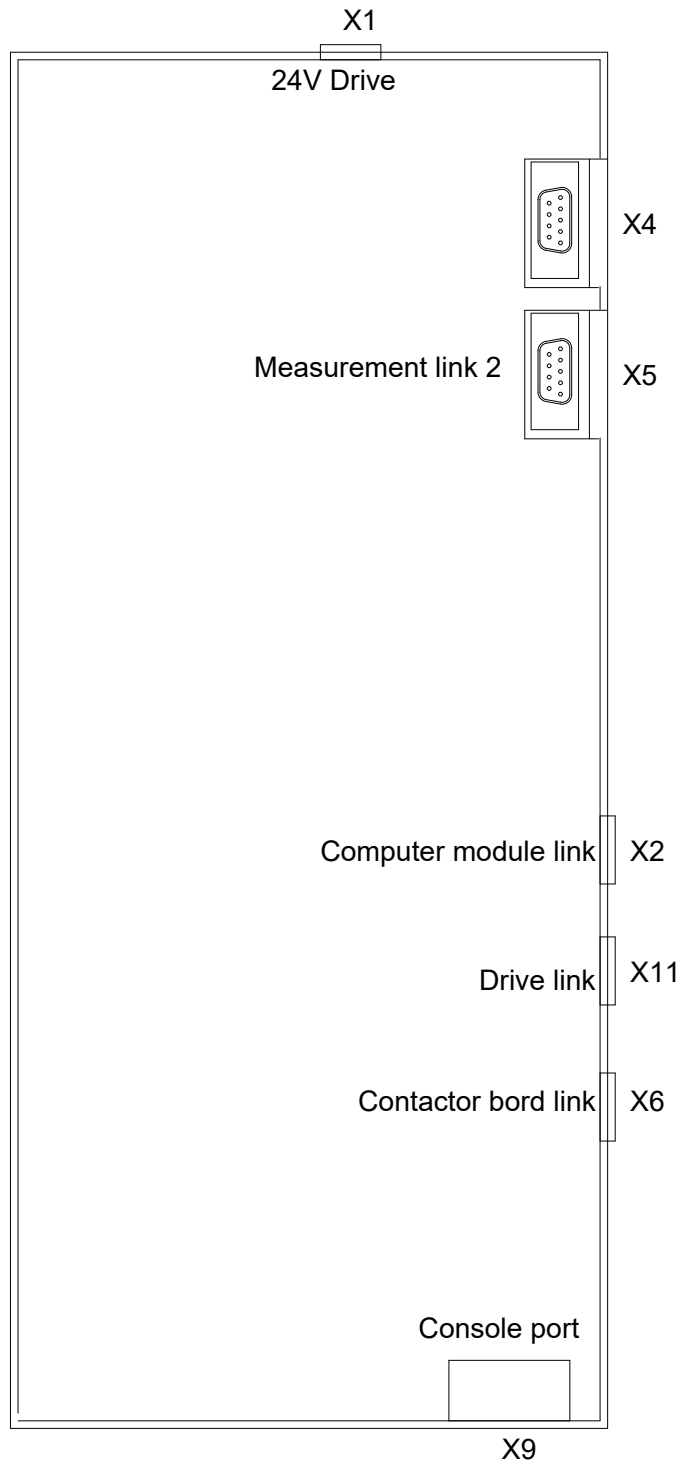
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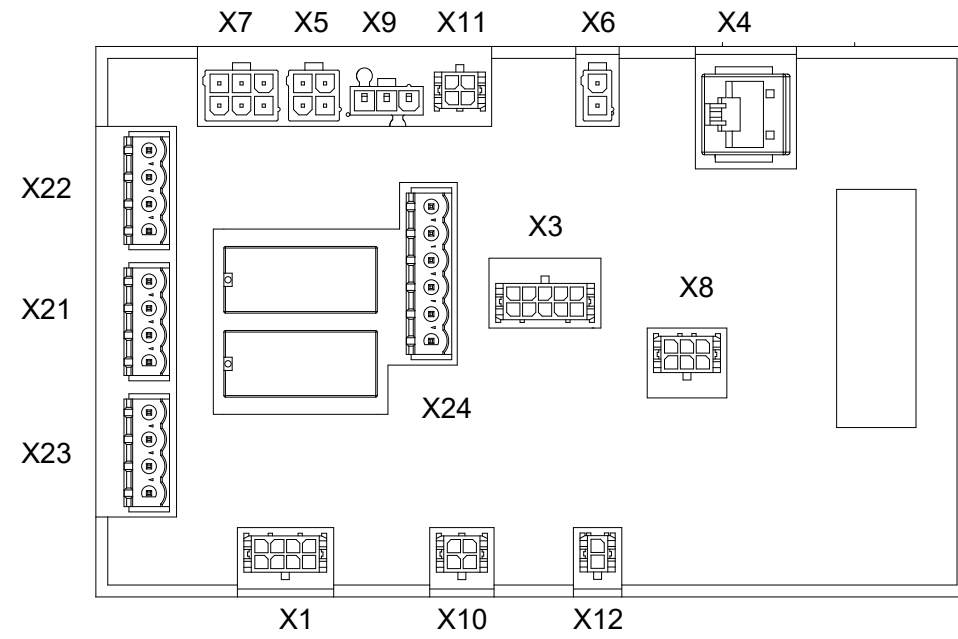
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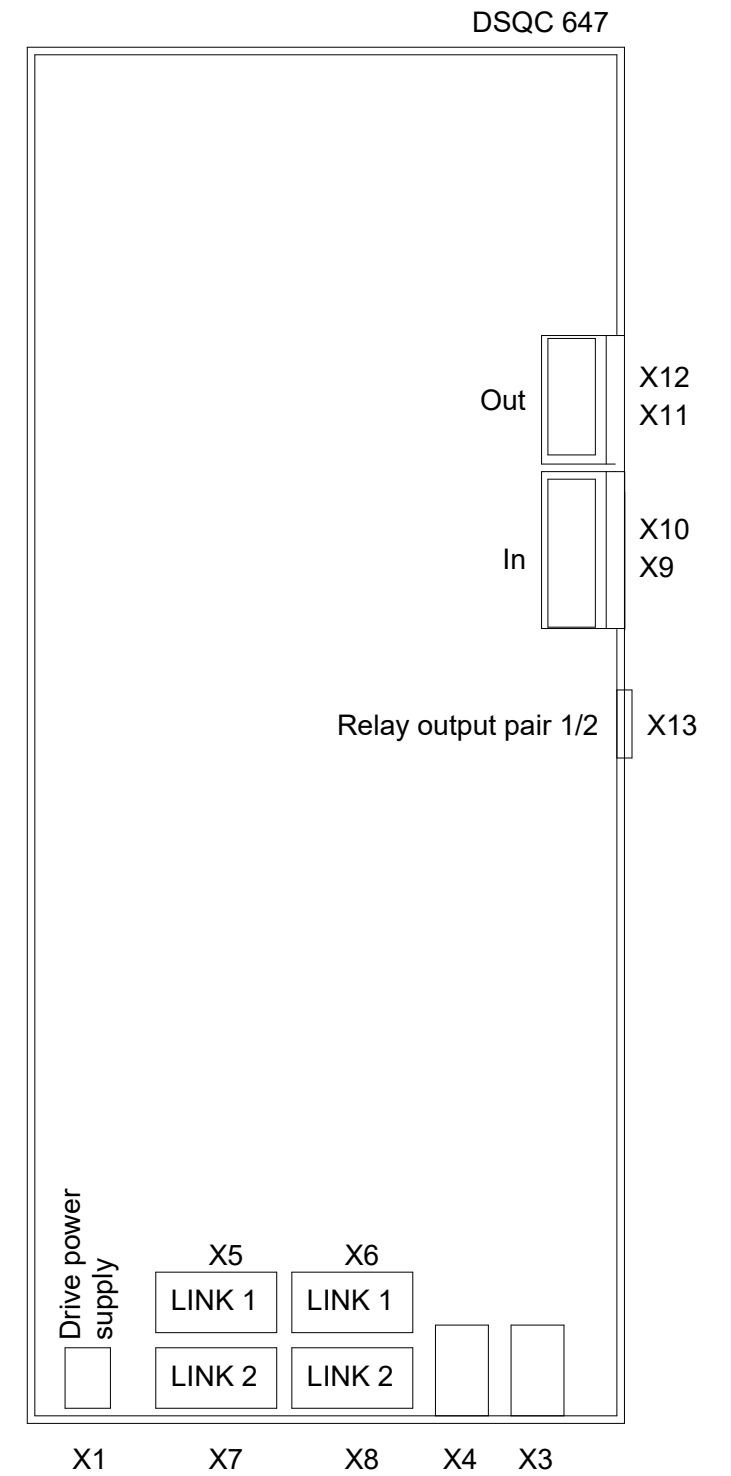
A42 Axis computer unit



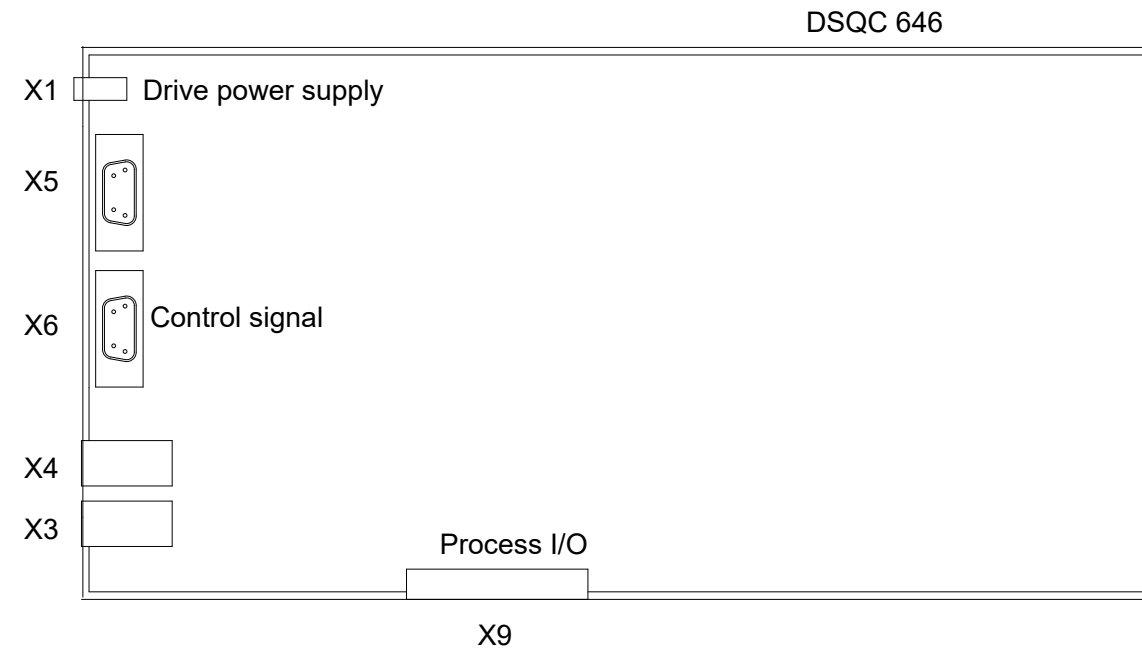
A43 Contactor unit



A44.2 Safe move



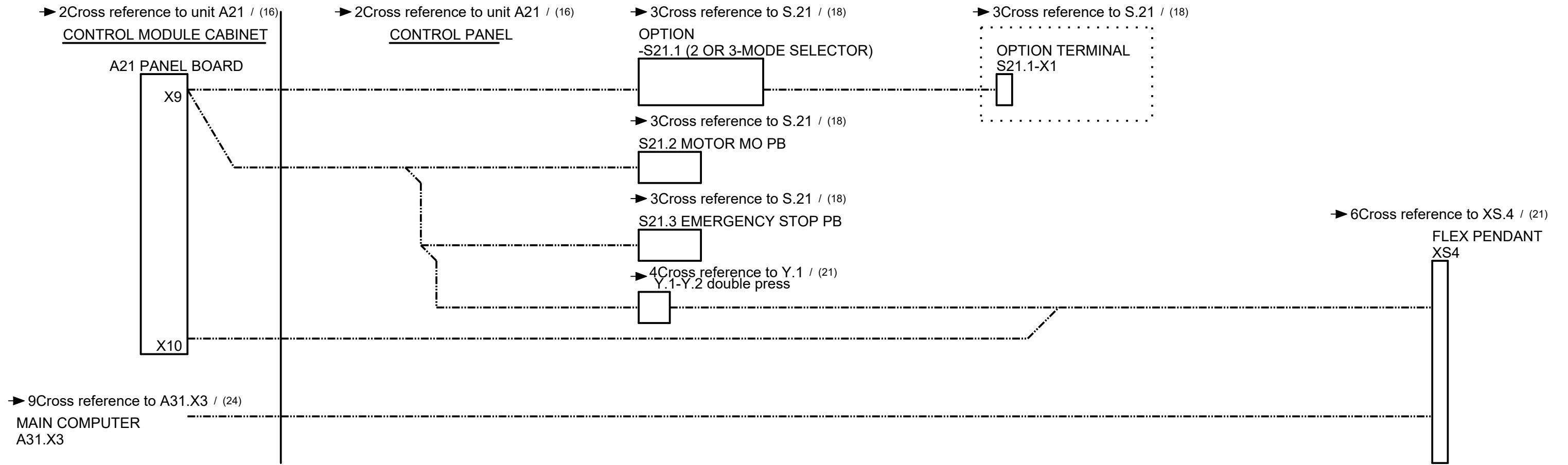
A44.1 EPS unit



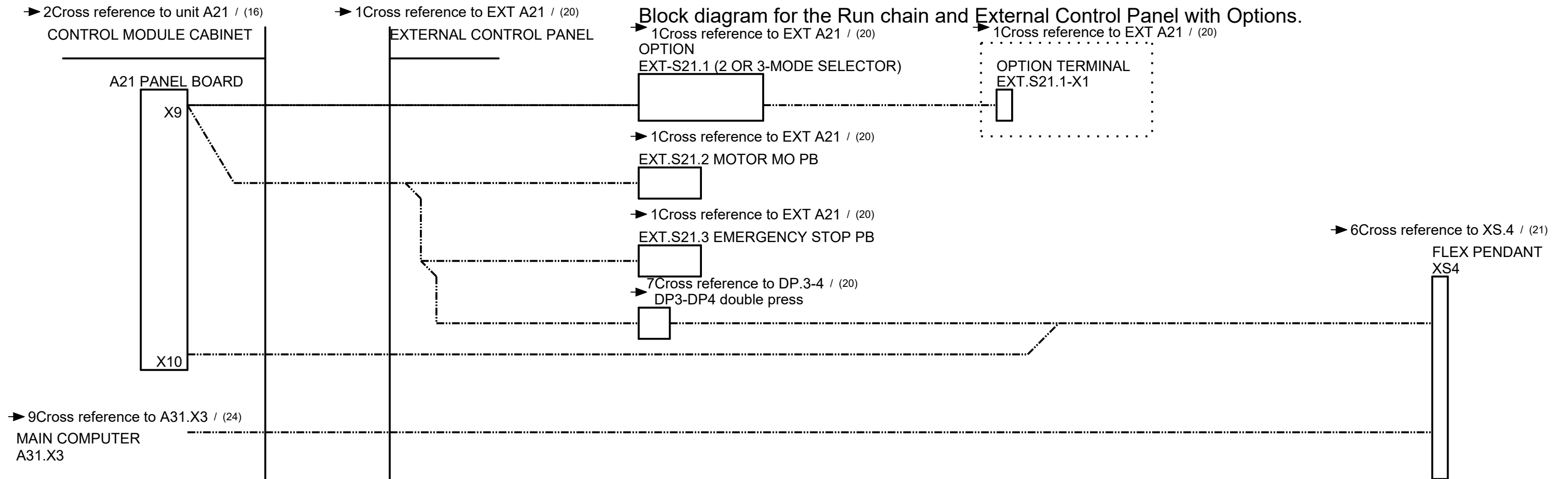
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Block diagram for the Run chain and Control Panel with Options.



Block diagram for the Run chain and External Control Panel with Options.



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RUN CHAIN and PANEL BOARD block diagram A21

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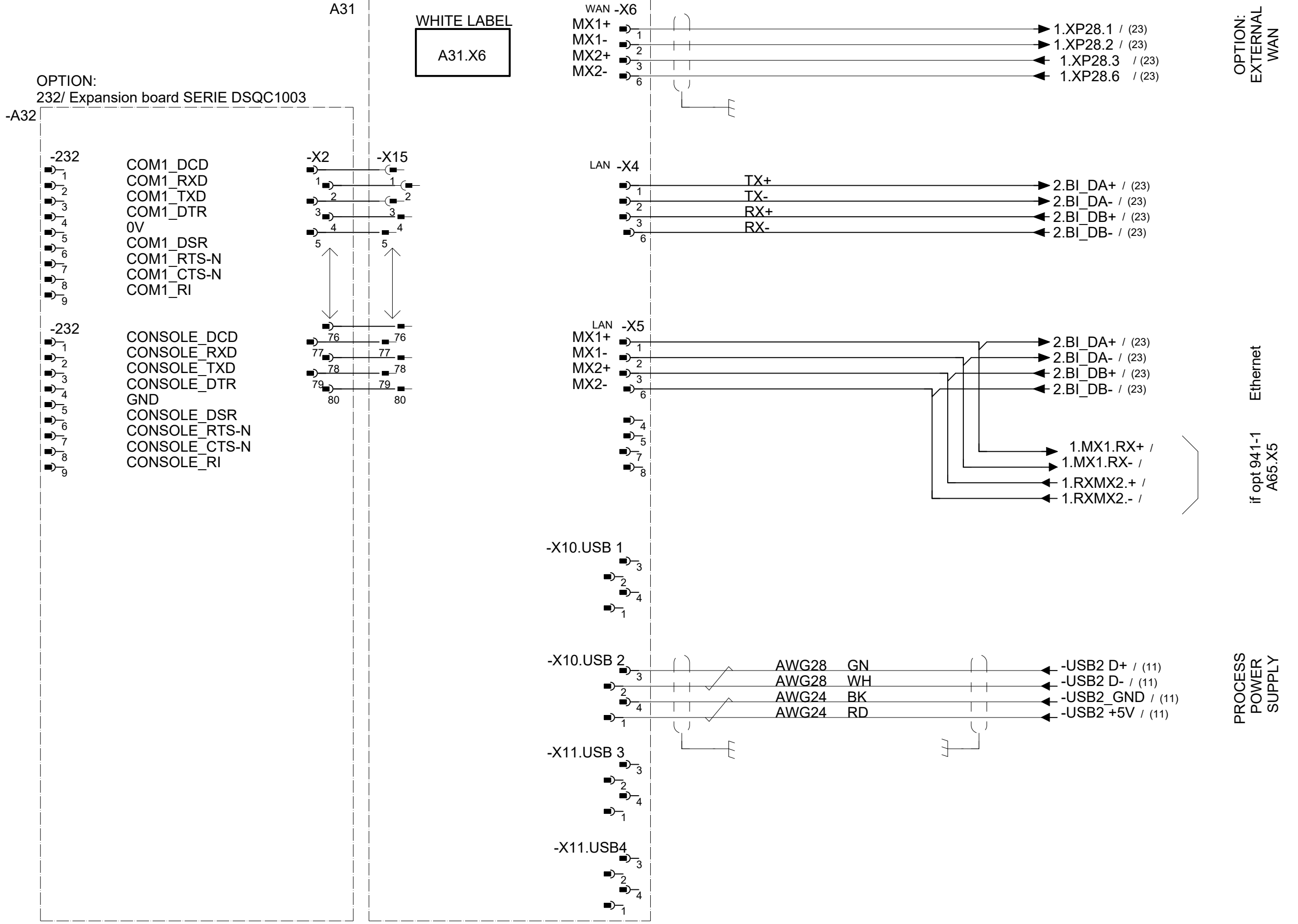
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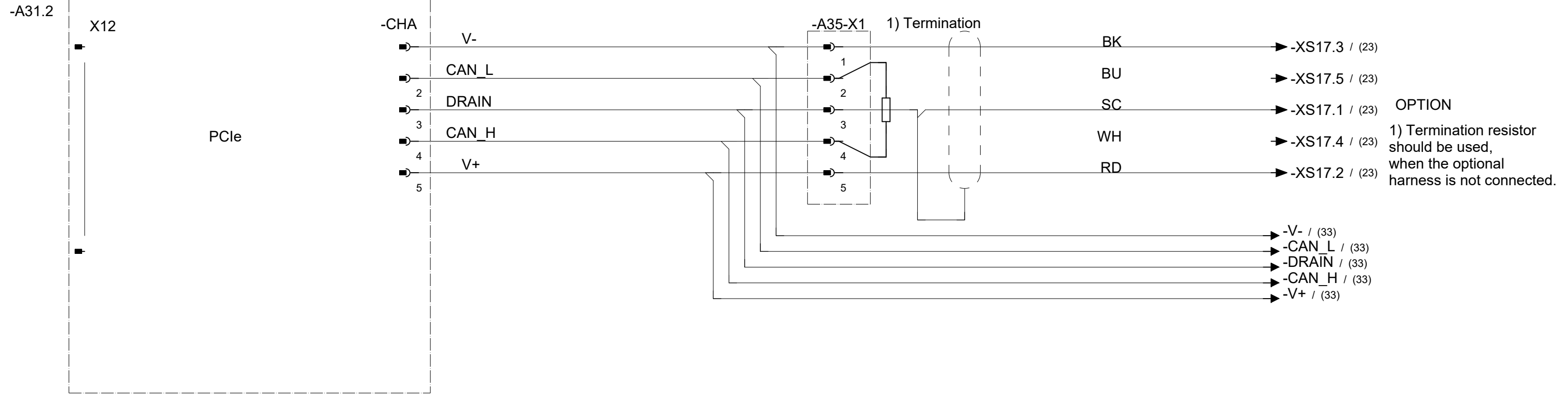
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M.Computer DSQC 1000 rel. 15.2 and earlier.
M.Computer DSQC1018 Rel.16.1
Main computer



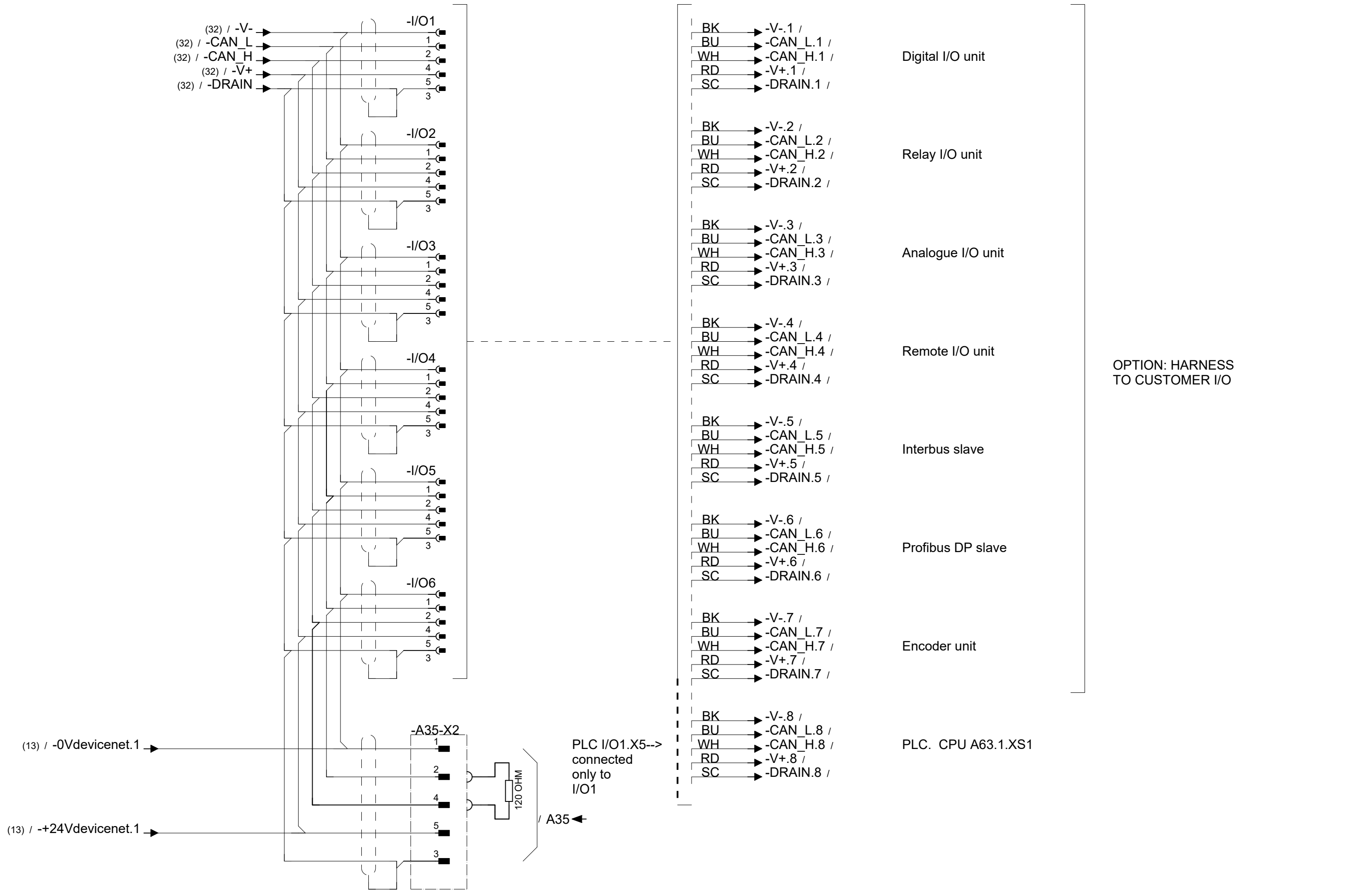
DeviceNet M/S DSQC1006



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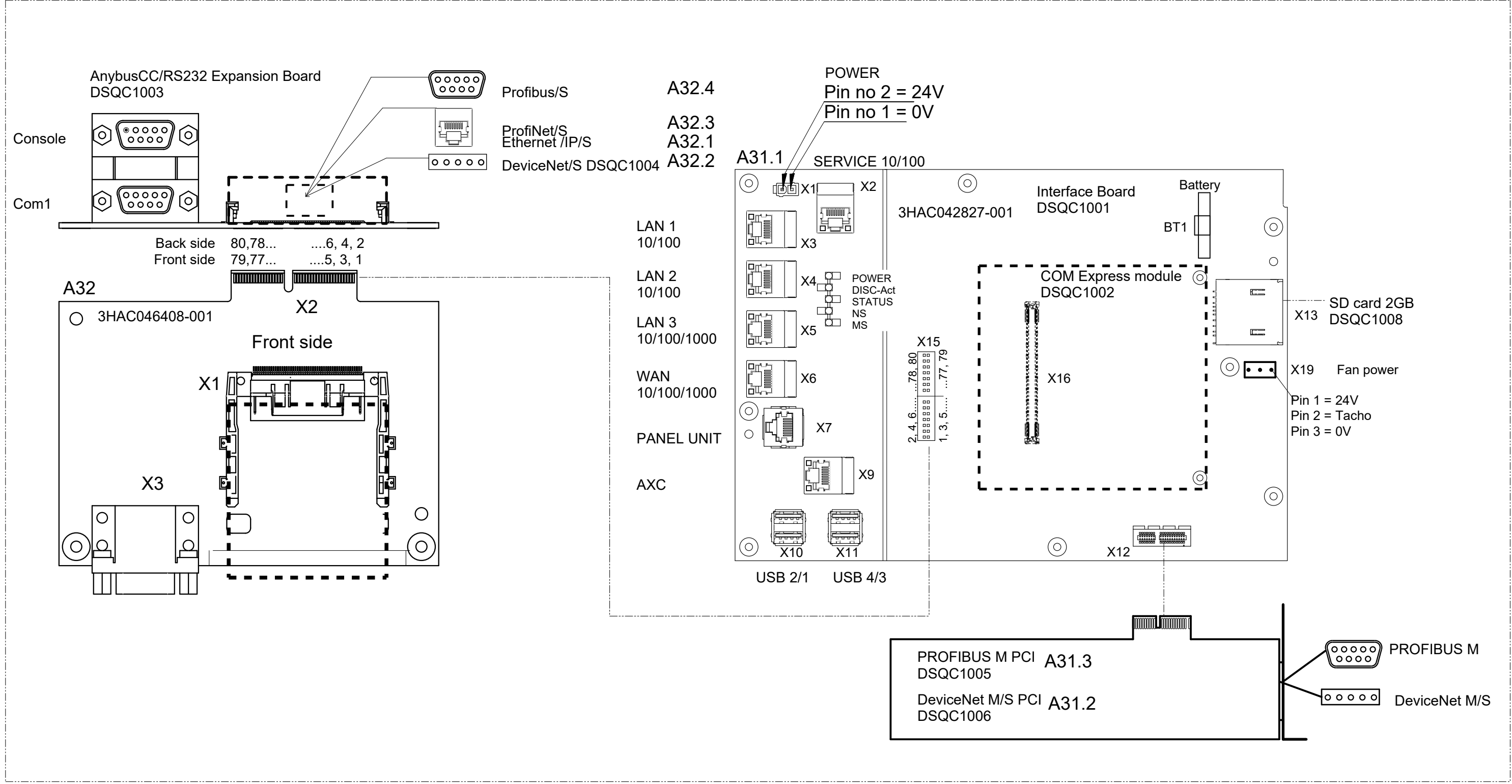
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OPTION: HARNESS TO CUSTOMER I/O

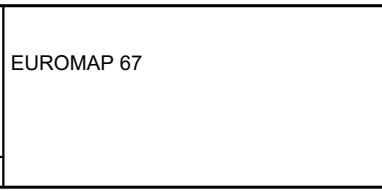
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A31
Main Computer Unit
DSQC1000/1018



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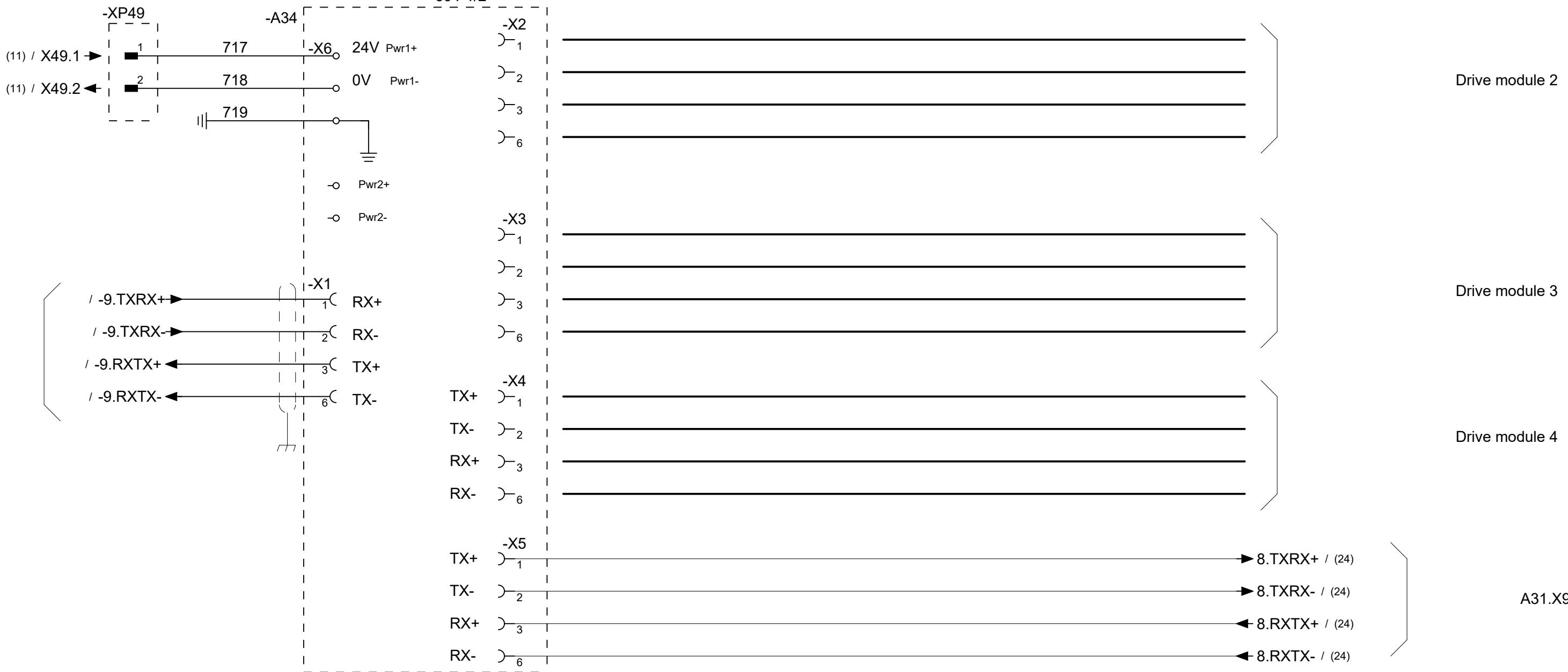


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Main Computer/AnybusCC/RS232 Exp./Interface Board/

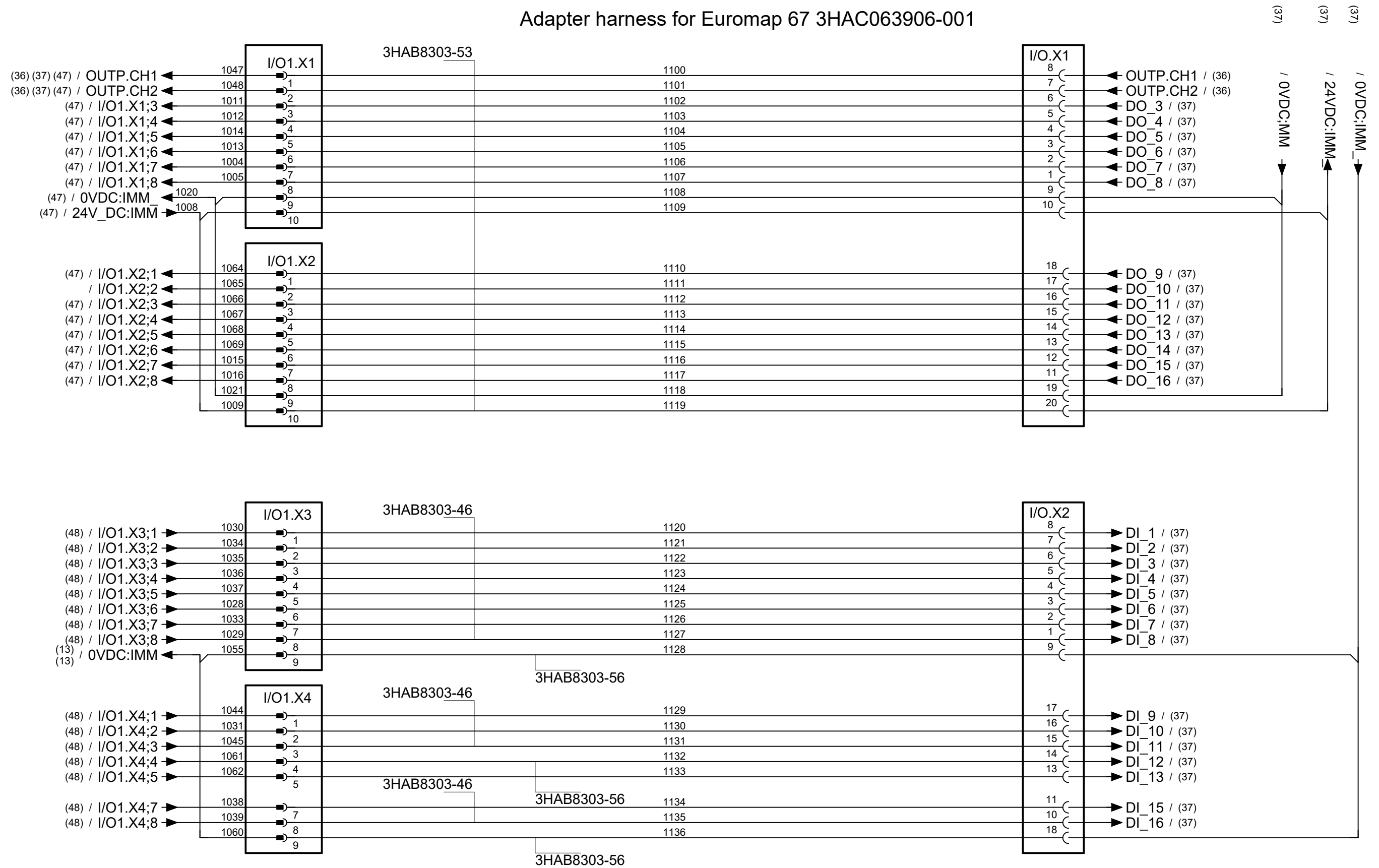
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ETHERNET SWITCH A34
opt. MULTI MOVE
604-1/2



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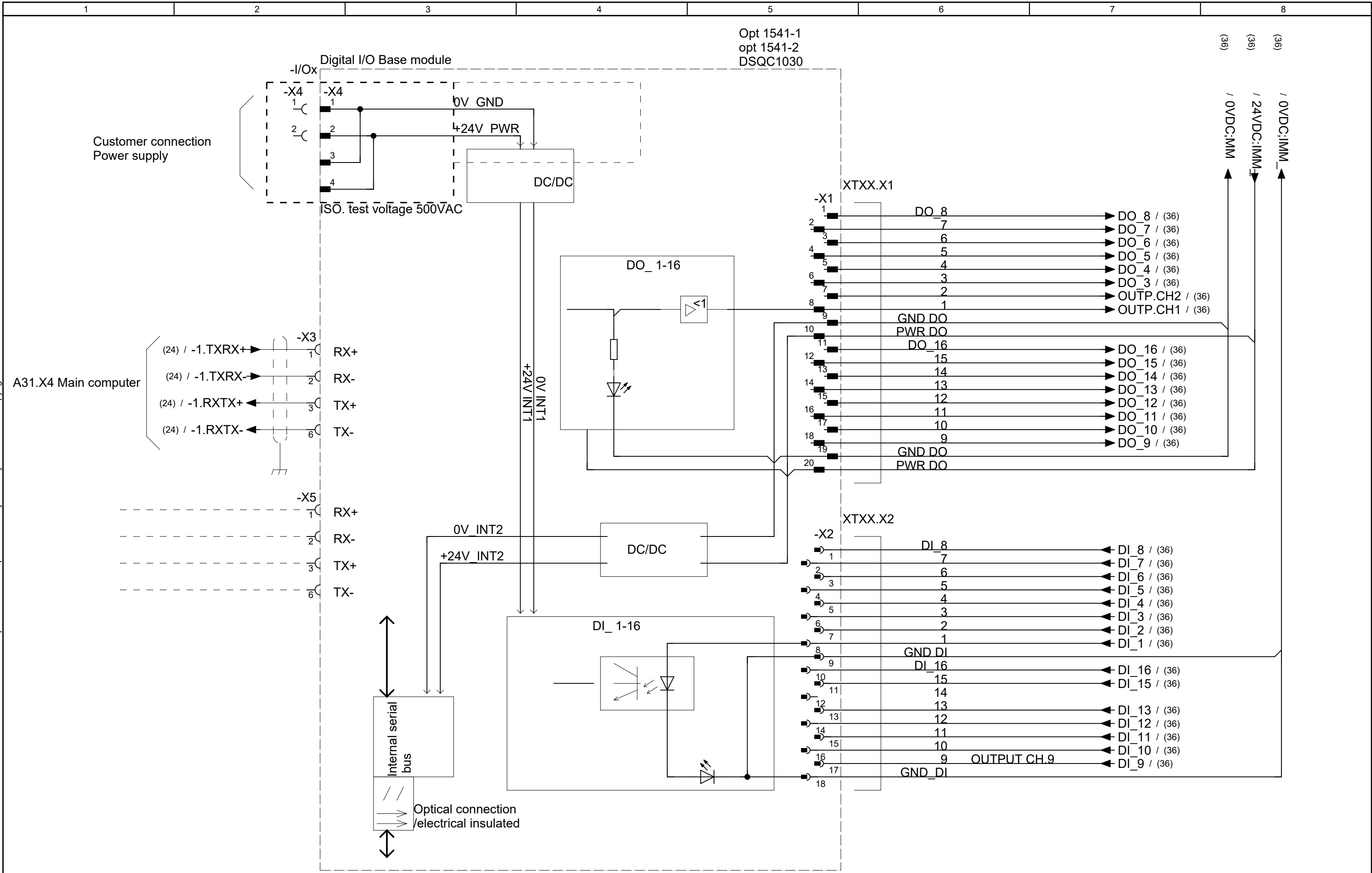
Adapter harness for Euromap 67 3HAC063906-001



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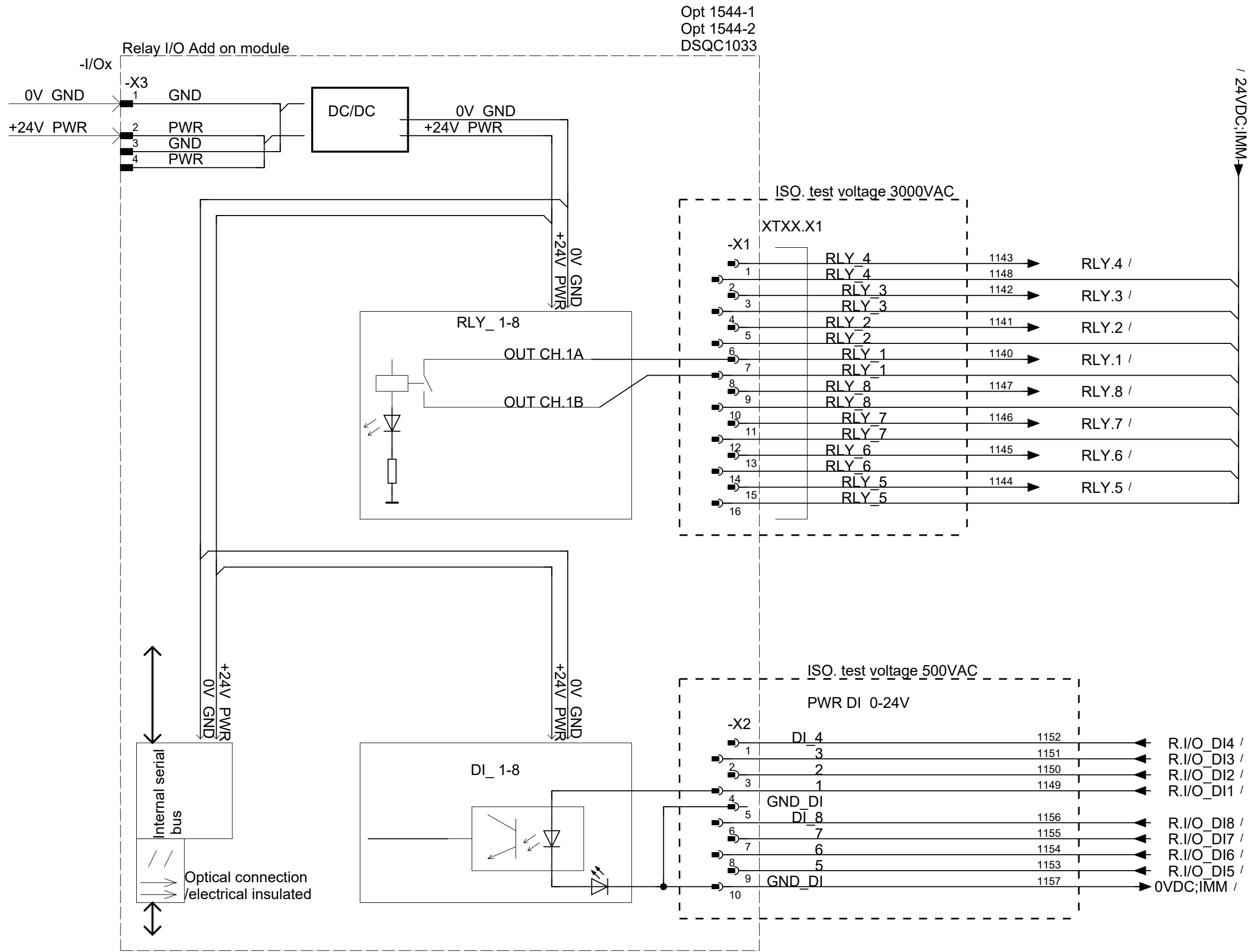
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 Local I/O Digital Base 16in/16out

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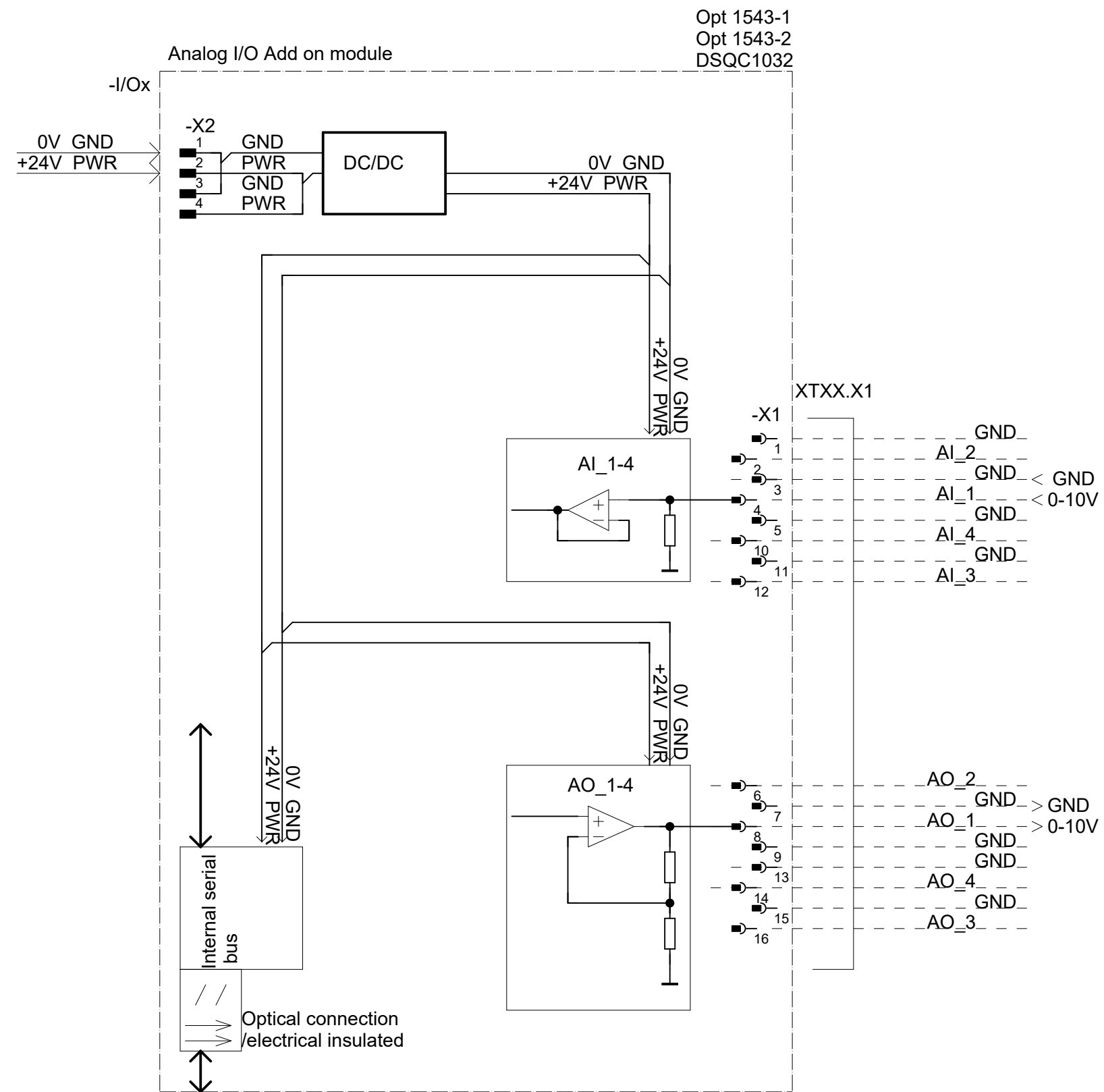
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IRC5 DESIGN 14 Euromap 67
Local I/O Digital 8in/8out 8 Relay in/out

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Opt 1543-1
Opt 1543-2
DSQC1032

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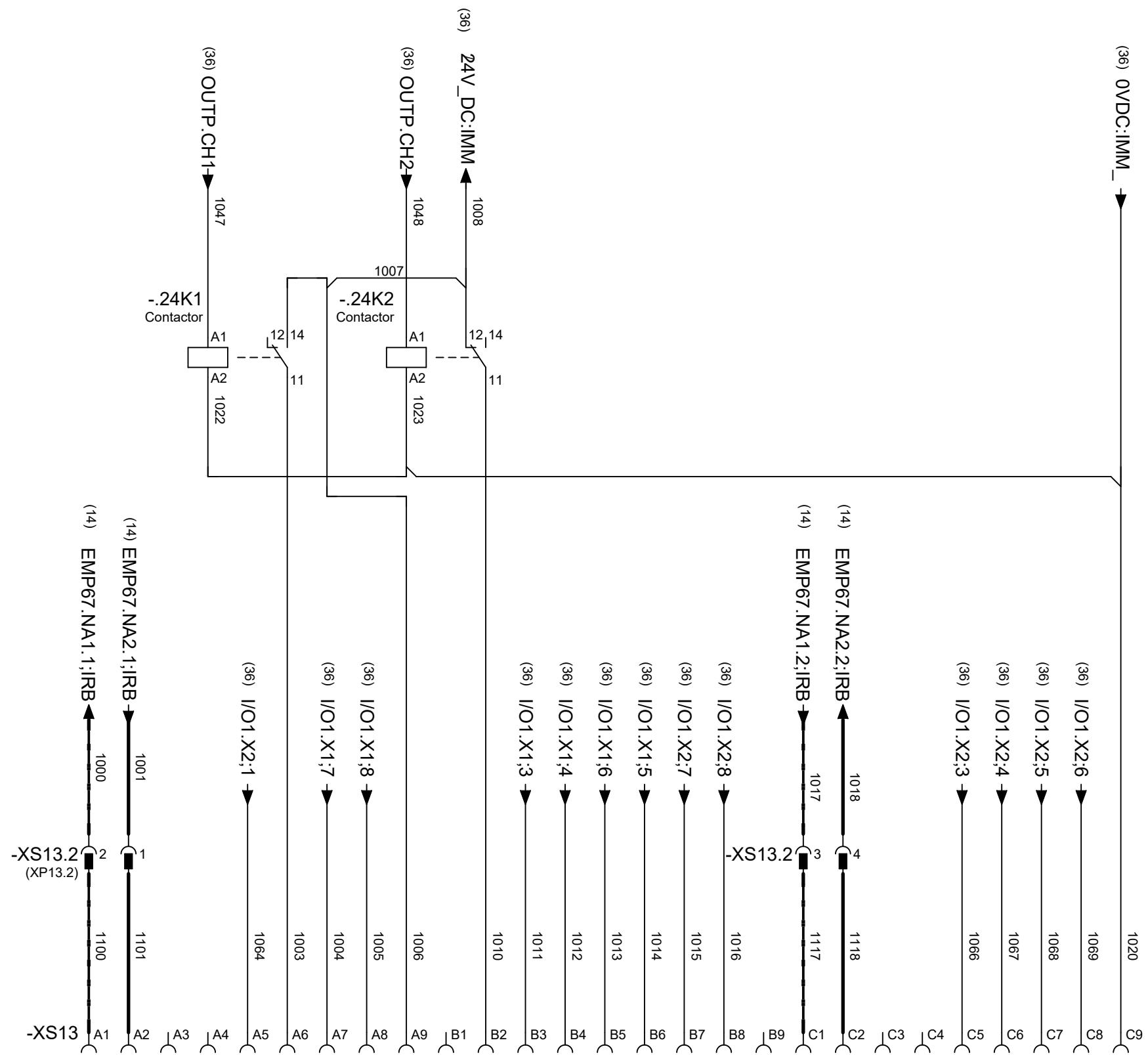
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ANALOGUE I/O UNIT DSQC1032

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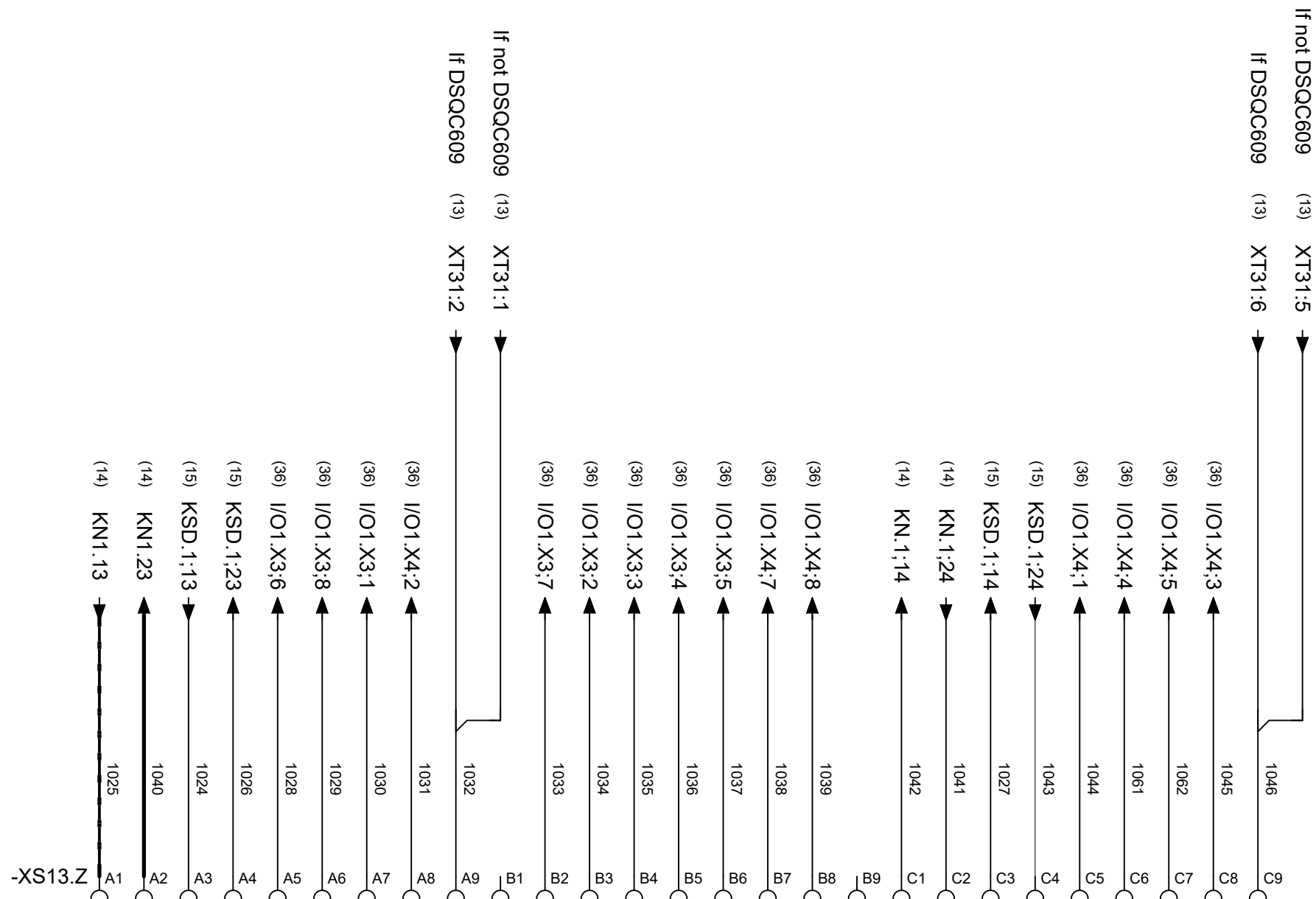
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