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Company / customer :	ABB
Project description :	FUNCTION PACK DESIGN 2011
Document number :	3AEJ030401-000
Drawing version :	

Manufacturer (company)	ABB
Type	
Type of installation	
Control Cabinet	FUNCTION PACK DESIGN 2011
Mains Voltage	
Supply	400 V AC
Control Voltage	24 V
Year of construction	2011

Project start	10/27/2011
Project Manager	José Ruiz
Last revision	11/17/2011
Designed by	Gaurav Rajore
Last revision	11/17/2011

Number of pages 34

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Structure identifier overview

F24_002

Full designation	Labeling	Structure description
=CAB	Higher-level function	
+CONTROLLER	Mounting location	
+CMDB1	Mounting location	
+CMDB2	Mounting location	
+24V	Mounting location	

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STRUCTURE IDENTIFIER OVERVIEW

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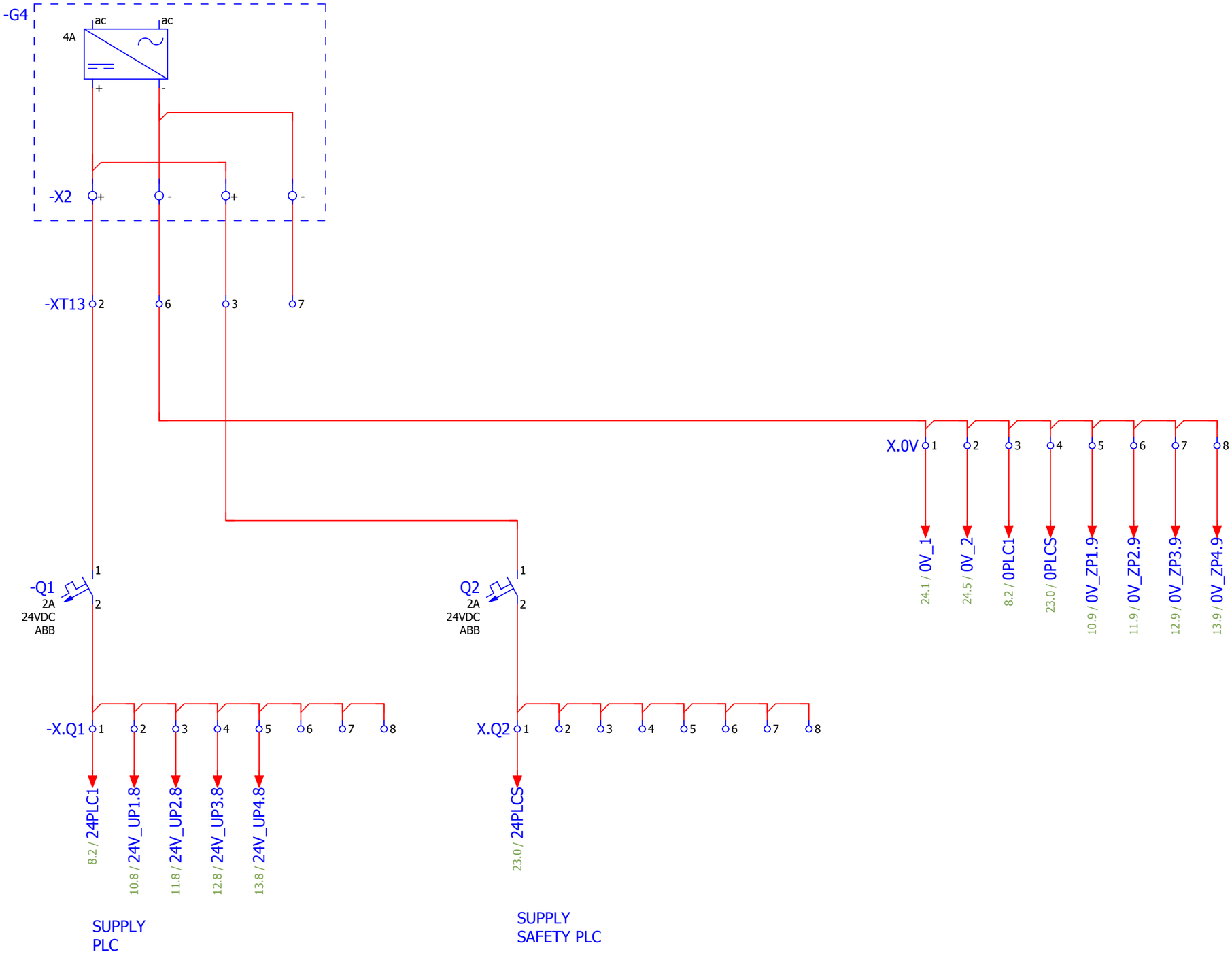
IRC5 Option Customer Power Supply



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POWER SUPPLY

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/6.1
-A1.0

/8.0
/7.1
-A1.1

A1.2

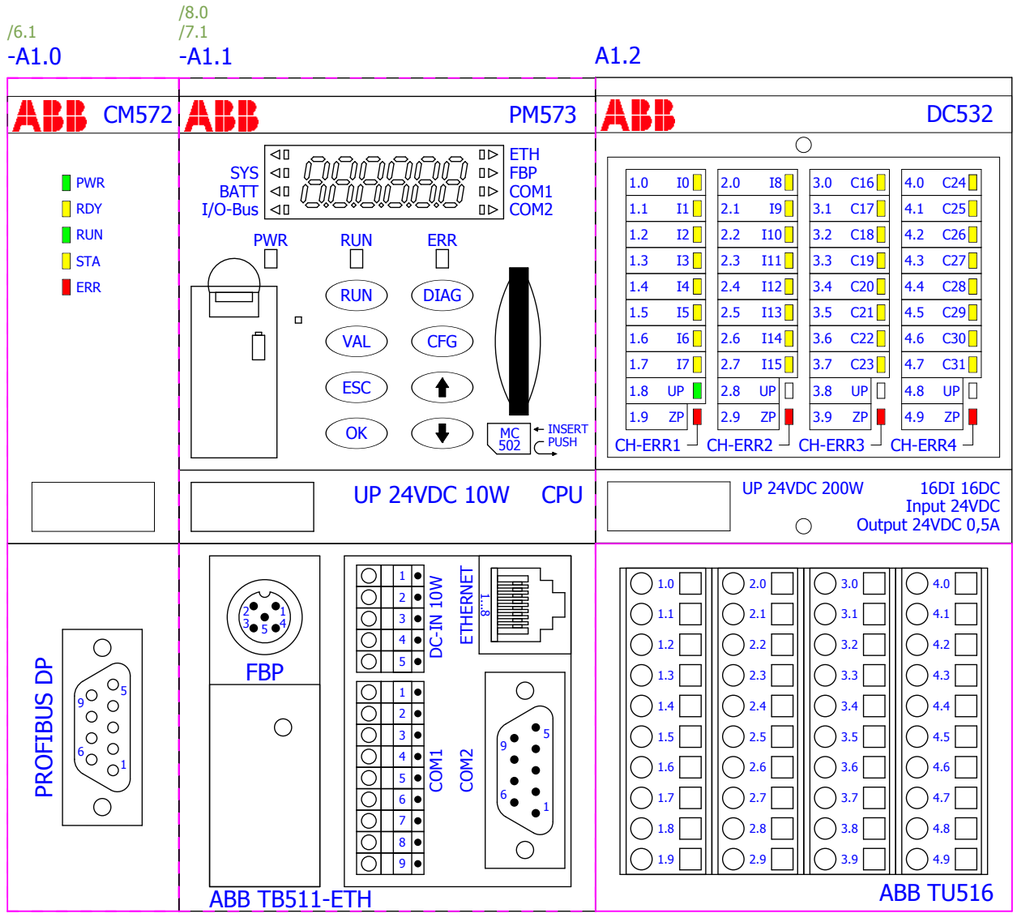

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ABB MODULE CONTROL ROBOT

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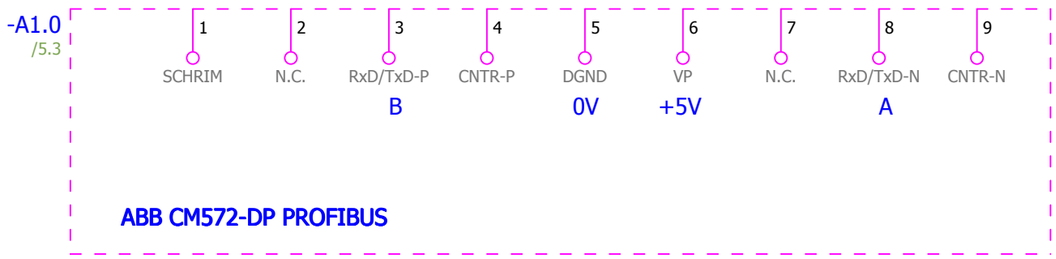

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DISTRIBUTION PROFIBUS

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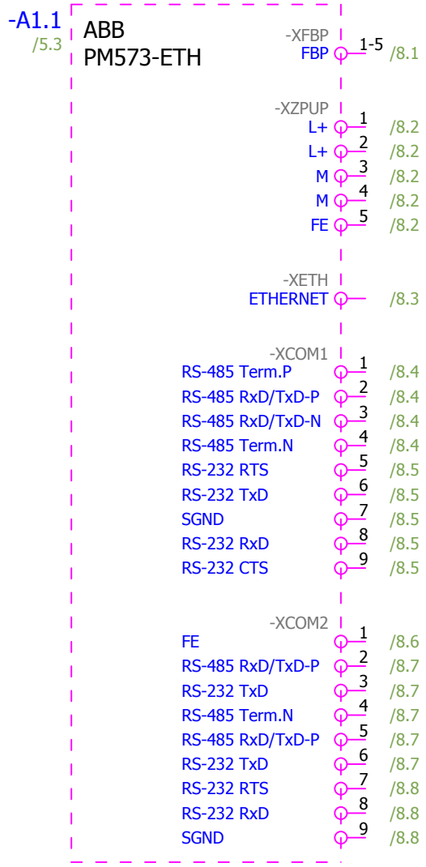

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SUMMARY MODULES PM573

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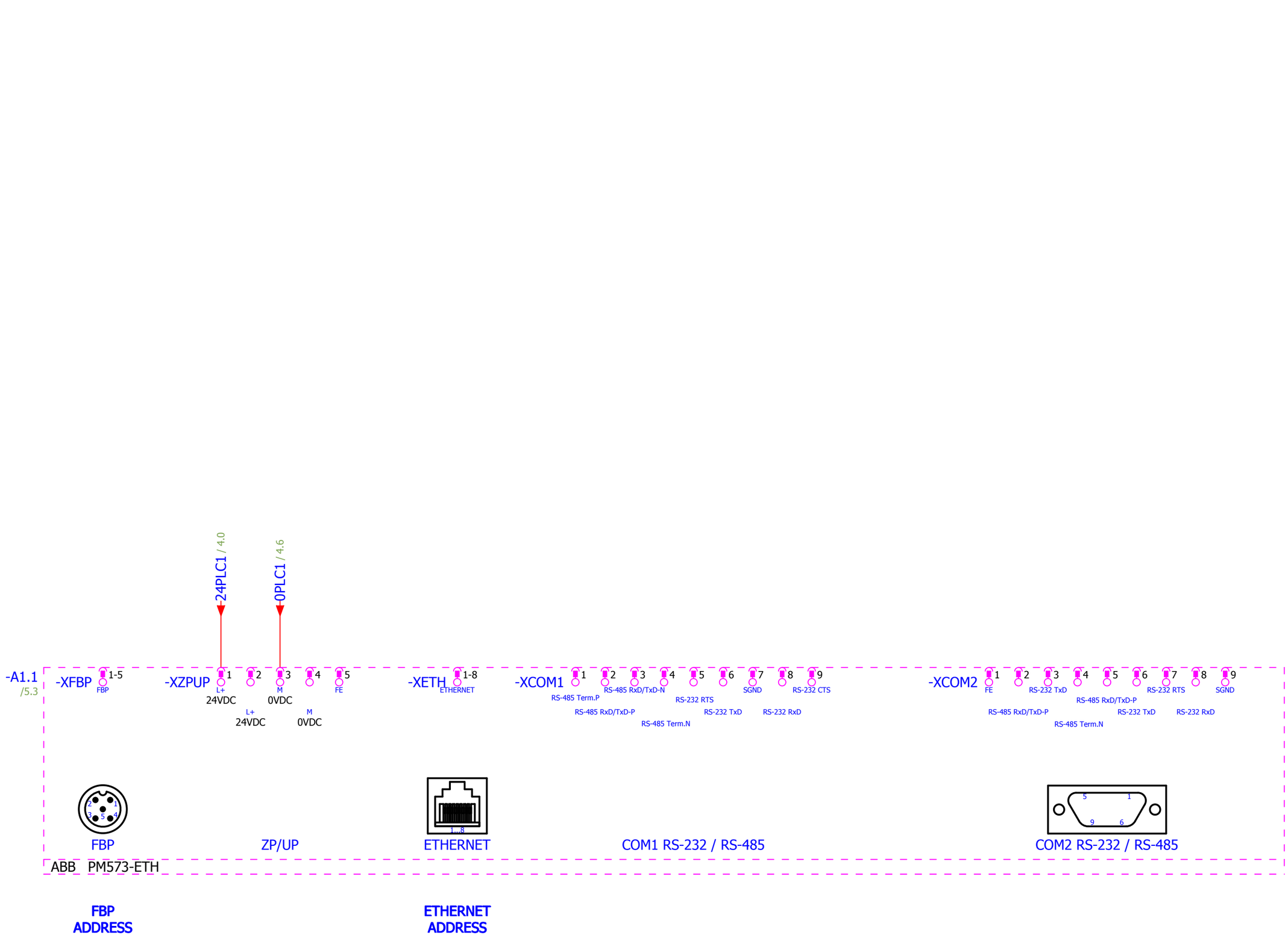

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CONNECTION PM573

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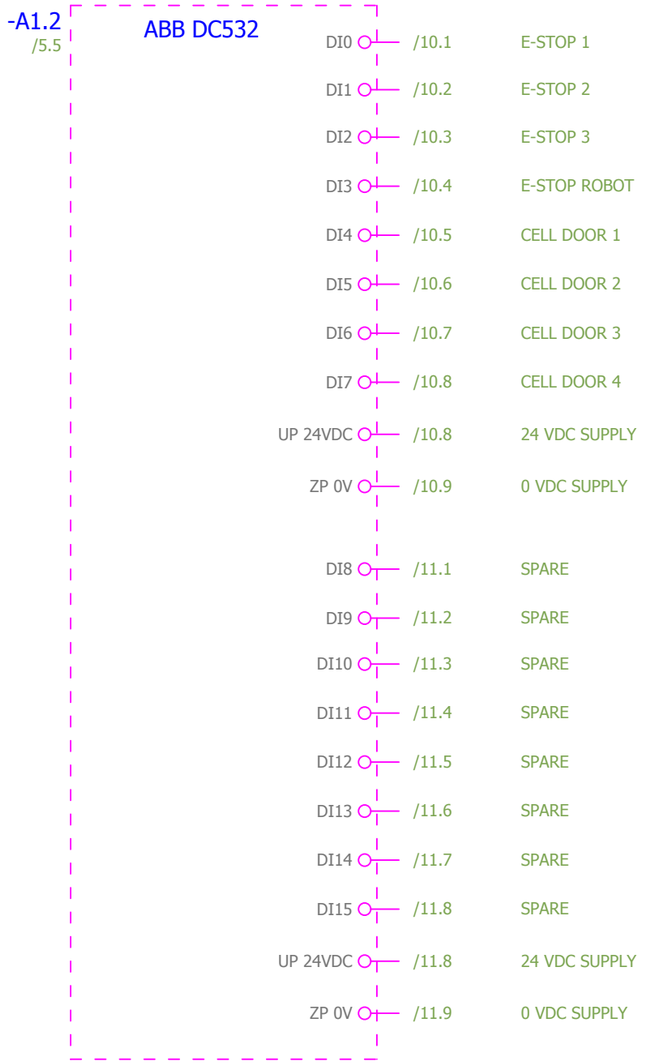

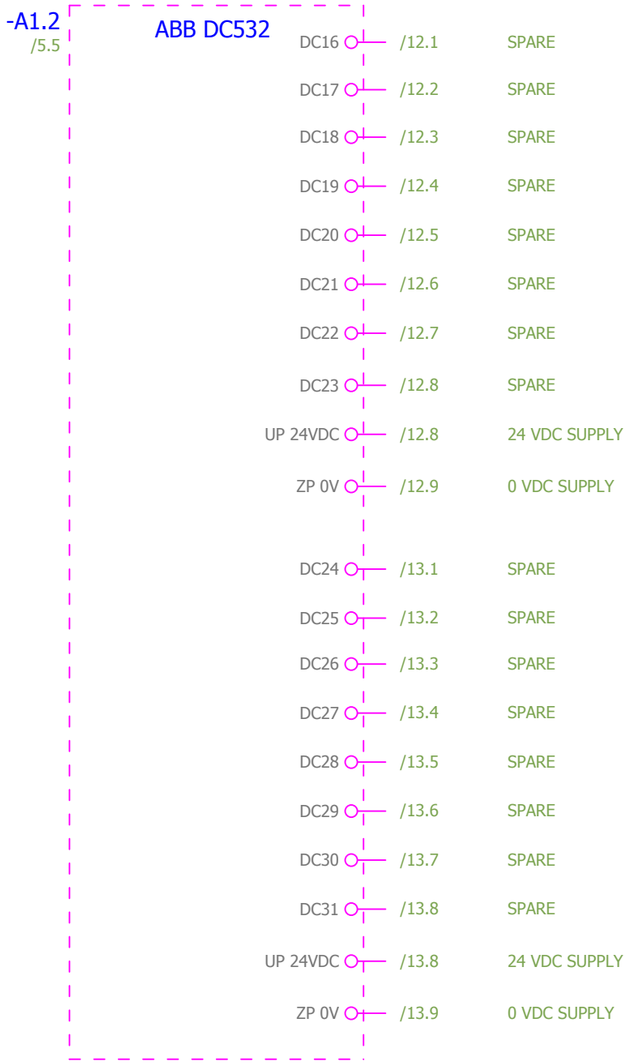

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FUNCTION PACK DESIGN 2011

SUMMARY MODULE
DC532

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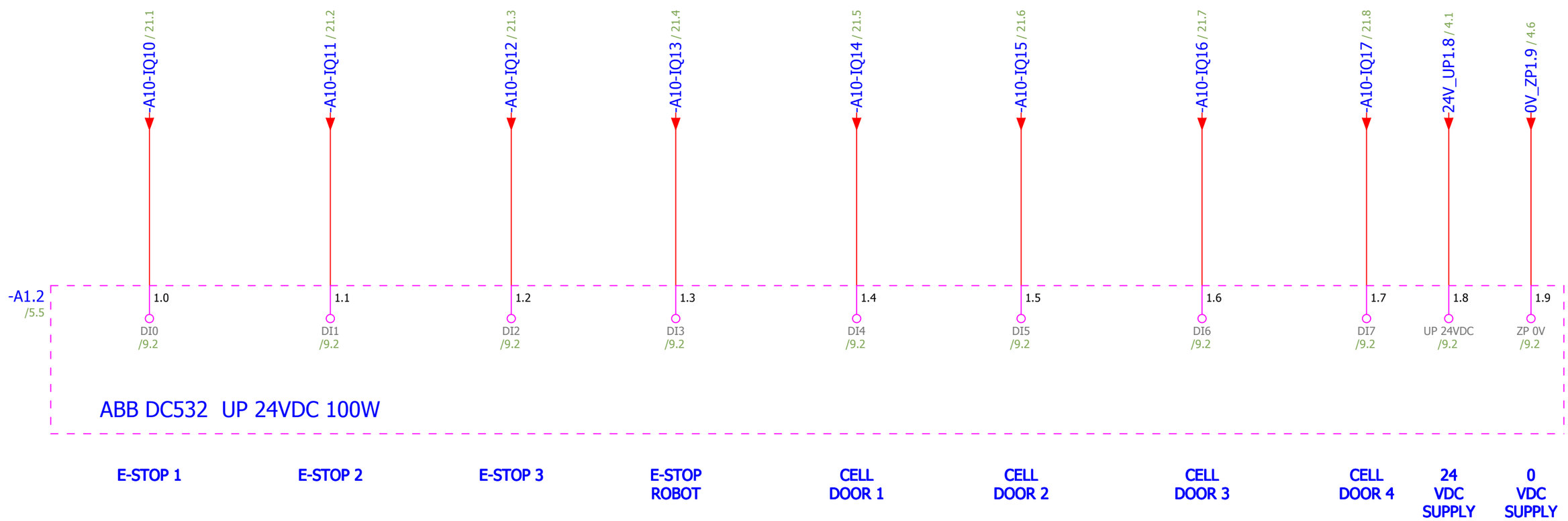

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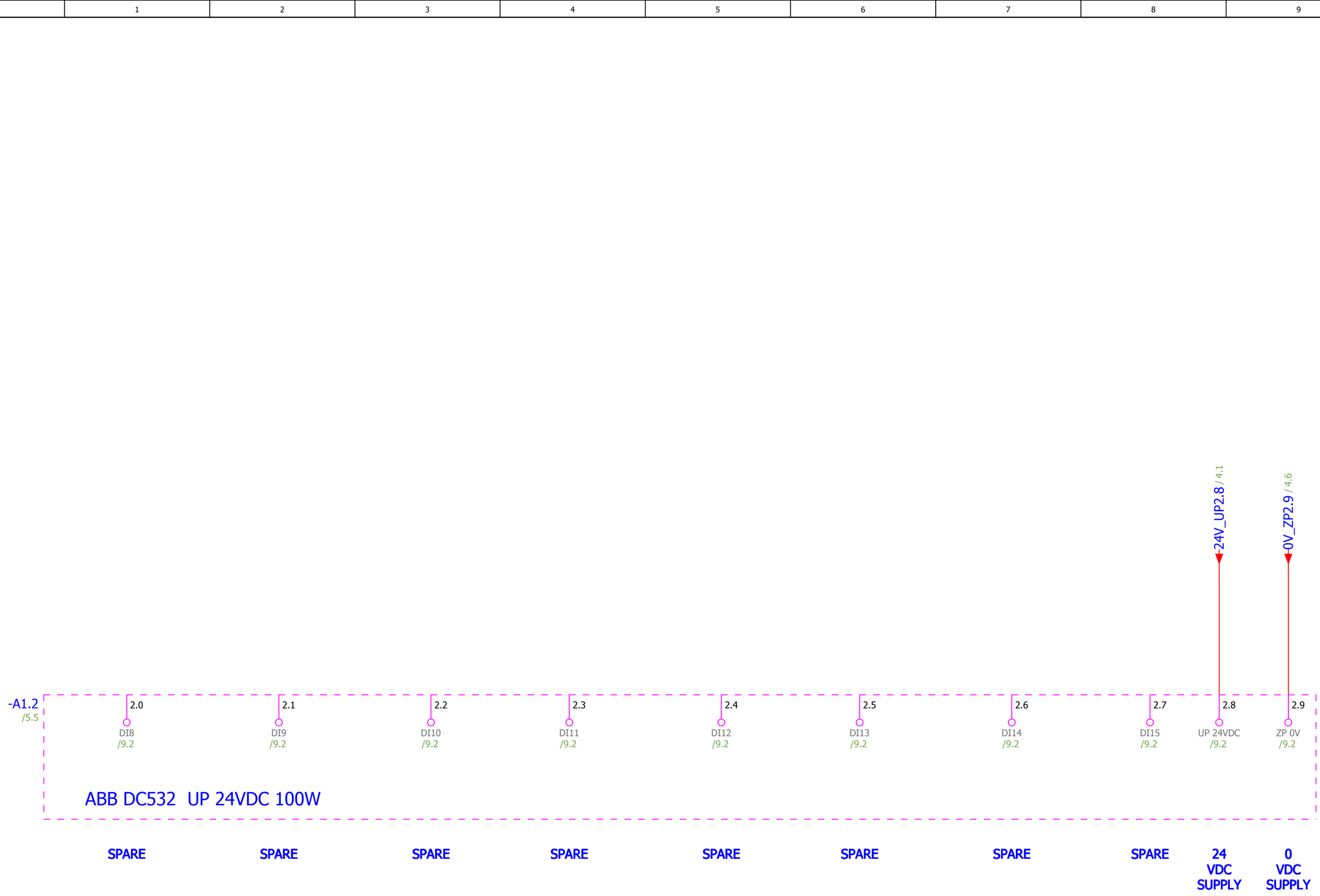

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INPUT MODULE DC532

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SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE 24 VDC SUPPLY 0 VDC SUPPLY

-A1.2
/5.5

ABB DC532 UP 24VDC 100W OUTPUT 24VDC/0.5A

/9.6 DC16	/9.6 DC17	/9.6 DC18	/9.6 DC19	/9.6 DC20	/9.6 DC21	/9.6 DC22	/9.6 DC23	/9.6 UP 24VDC	/9.6 ZP 0V
3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9

4.1 / 24V_UP3.8

4.7 / 0V_ZP3.9

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INPUT/OUTPUT MODULE DC532

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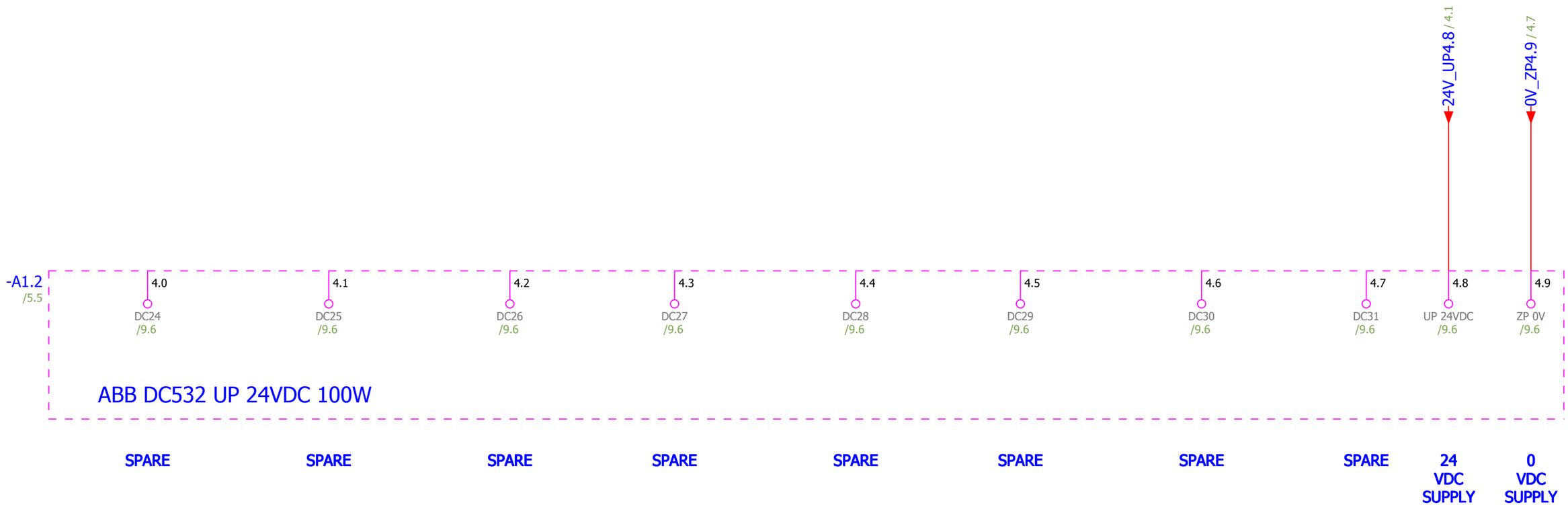

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INPUT/OUTPUT MODULE DC532

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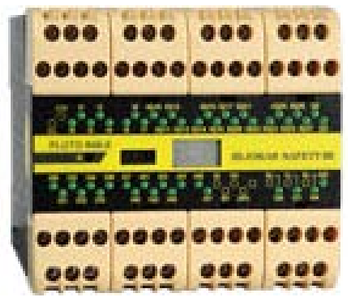
/20.1
/21.0
/22.0
/23.0
/16.5
/17.2
/16.1
JOKAB SAFETY PLUTO S46
MODULES CONTROL SAFETY



A11
/24.1
EXTENSION CONTACT SAFE
GENERAL STOP

-A12
/24.5
EXTENSION CONTACT SAFE
AUTOMATIC STOP

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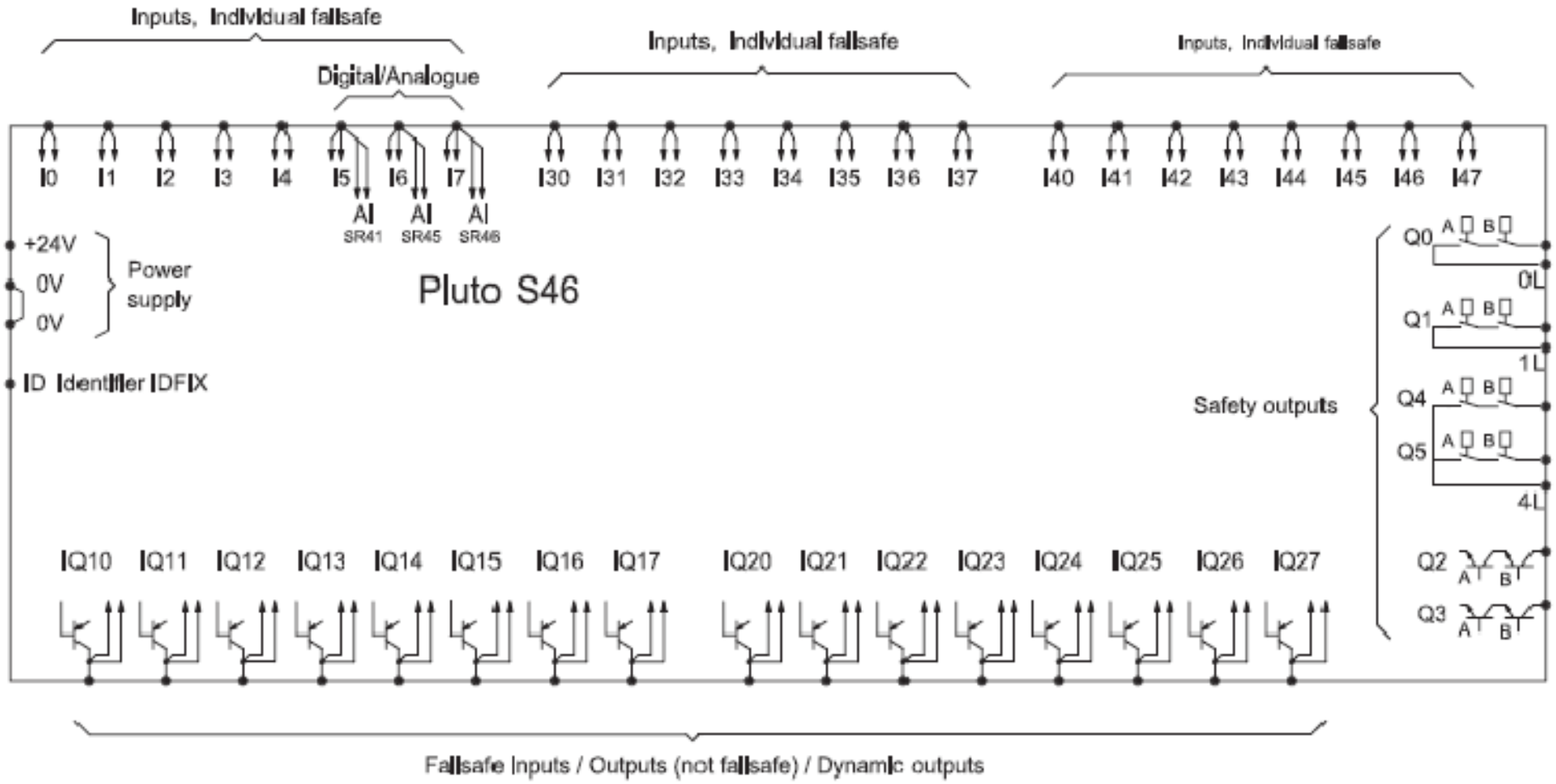

ID: Connection for identifier, which has a unique ID number that can be read by the system.

I.. Safety inputs (24 VDC) that are individually secure. This means that the highest level of safety can be achieved with only one input if ABB Jokab Safety dynamic safety components are used. Otherwise two inputs are required for each safety function.

IQ.. I/O that can be used for safety inputs or signal outputs, e.g. to indicate or control functions that are not safety-related. For IQ.. as safety inputs, refer to I..

Q0, Q1: Failsafe relay outputs that are individually failsafe and individually programmable.

Q2, Q3: Failsafe transistor outputs (-24 VDC) that are individually failsafe and individually programmable. Intended for electro-mechanical components such as contactors and valves.

Q4, Q5 Failsafe relay outputs with common potential that are individually failsafe and individually programmable.

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PLUTO S46 I/O OVERVIEW

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/14.1
/16.5
/17.2

Inputs, individual failsafe

Digital/Analogue

I0	/18.1	-X.ES:1	EMERGENCY STOP 1 CHANNEL 1	
I1	/18.2	-X.ES:2	EMERGENCY STOP 1 CHANNEL 2	
I2	/18.3	-X.ES:3	EMERGENCY STOP 2 CHANNEL 1	
I3	/18.4	-X.ES:4	EMERGENCY STOP 2 CHANNEL 2	
I4	/18.5	-X.ES:5	EXTERNAL DEVICE EMERGENCY CHANNEL 1	
I5	/18.6	-X.ES:6	EXTERNAL DEVICE EMERGENCY CHANNEL 2	
I6	/18.7	-A21-X1:2	EMERGENCY STOP ROBOT CHANNEL 1	A1 SR41
I7	/18.8	-X2:2	EMERGENCY STOP ROBOT CHANNEL 2	A1 SR45 / A1 SR47

Inputs, individual failsafe

I30	/19.1	-X.AS:1	DOOR 1 CHANNEL 1
I31	/19.2	-X.AS:2	DOOR 1 CHANNEL 2
I32	/19.3	-X.AS:3	DOOR 2 CHANNEL 1
I33	/19.4	-X.AS:4	DOOR 2 CHANNEL 2
I34	/19.5	-X.AS:5	DOOR 3 CHANNEL 1
I35	/19.6	-X.AS:6	DOOR 3 CHANNEL 2
I36	/19.7	-X.AS:7	EXTERNAL DEVICE DOOR CHANNEL 1
I37	/19.8	-X.AS:8	EXTERNAL DEVICE DOOR CHANNEL 2

Inputs, individual failsafe

I40	/20.1	-X.RST:1	RESET DOOR 1
I41	/20.2	-X.RST:2	RESET DOOR 2
I42	/20.3	-X.RST:3	RESET DOOR 3
I43	/20.4	-X.RST:4	EXTERNAL DEVICE RESET DOOR
I44	/20.5	-X.RST:5	SPARE
I45	/20.6	-X.RST:6	SPARE
I46	/20.7	-X.RST:7	SPARE
I47	/20.8	-X.RST:8	SPARE

JOKAB SAFETY

-A10

/14.1

Failsafe inputs / Outputs (not failsafe) / Dynamic outputs

IQ10	/21.1	-A1.2:1.0	STATUS E-STOP 1
IQ11	/21.2	-A1.2:1.1	STATUS E-STOP 2
IQ12	/21.3	-A1.2:1.2	STATUS E-STOP EXTERNAL DEVICE
IQ13	/21.4	-A1.2:1.3	STATUS E-STOP ROBOT
IQ14	/21.5	-A1.2:1.4	STATUS DOOR 1
IQ15	/21.6	-A1.2:1.5	STATUS DOOR 2
IQ16	/21.7	-A1.2:1.6	STATUS DOOR 3
IQ17	/21.8	-A1.2:1.7	STATUS DOOR EXTERNAL DEVICE
IQ20	/22.1		SPARE
IQ21	/22.2		SPARE
IQ22	/22.3		SPARE
IQ23	/22.4		SPARE
IQ24	/22.5		SPARE
IQ25	/22.6		DYNAMIC SIGNAL A
IQ26	/22.7		DYNAMIC SIGNAL B
IQ27	/22.8	-A21-X1:1	DYNAMIC SIGNAL C

JOKAB SAFETY

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ABB

FUNCTION PACK DESIGN 2011
SUMMARY MODULES
CONTROL SAFETY

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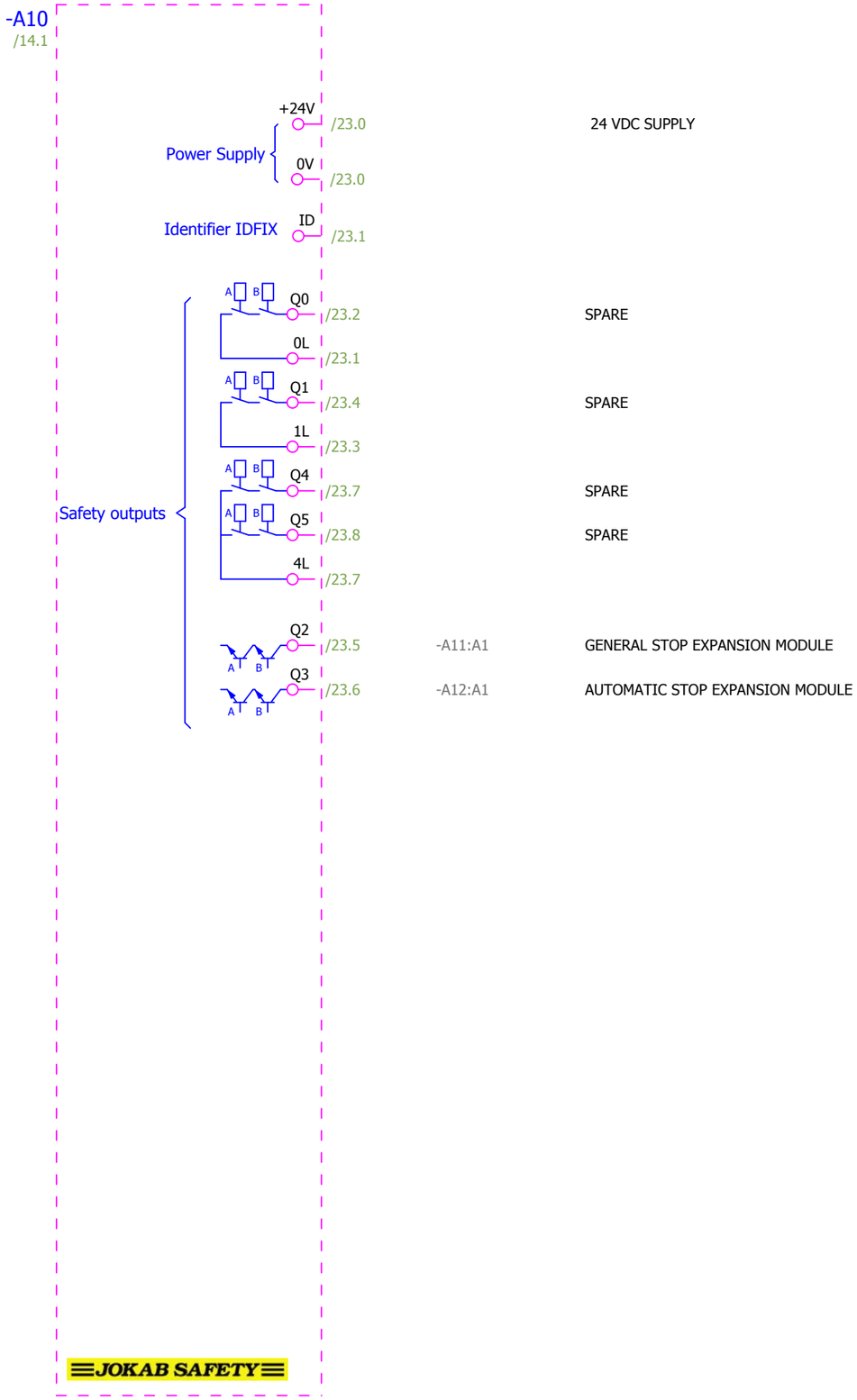

24 VDC SUPPLY

SPARE

SPARE

SPARE

SPARE

GENERAL STOP EXPANSION MODULE

AUTOMATIC STOP EXPANSION MODULE

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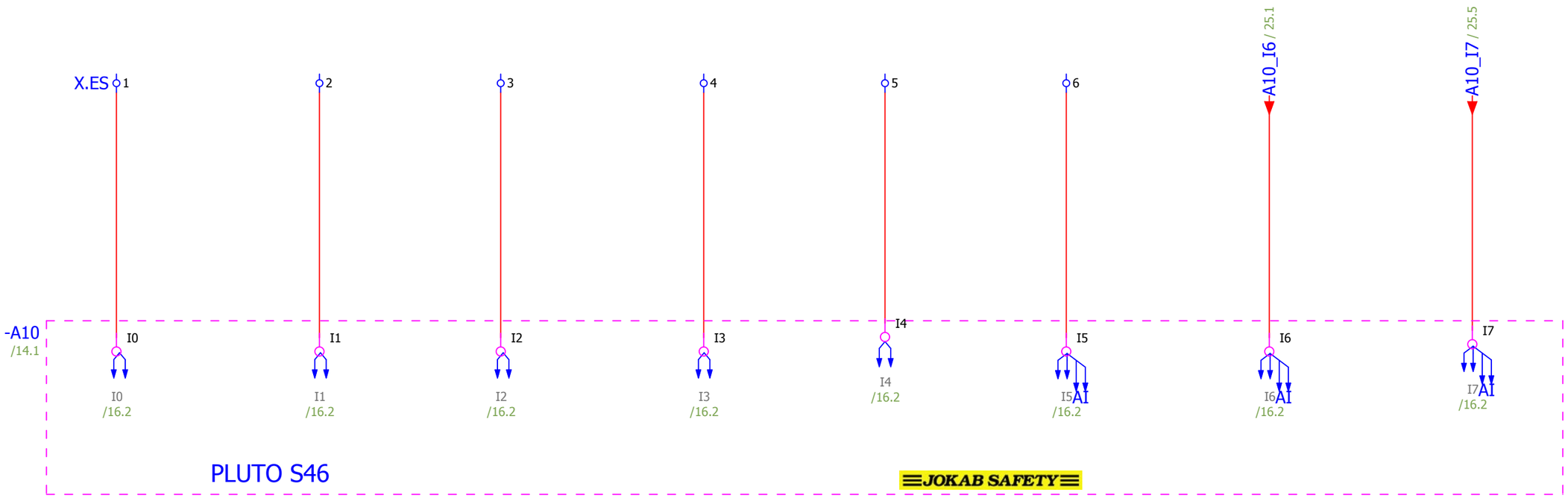

EMEGENCY STOP 1 CHANNEL 1

EMERGENCY STOP 1 CHANNEL 2

EMEGENCY STOP 2 CHANNEL 1

EMERGENCY STOP 2 CHANNEL 2

EXTERNAL DEVICE EMERGENCY CHANNEL 1

EXTERNAL DEVICE EMERGENCY CHANNEL 2

EMEGENCY STOP ROBOT CHANNEL 1

EMERGENCY STOP ROBOT CHANNEL 2

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INPUTS MODULE SAFE

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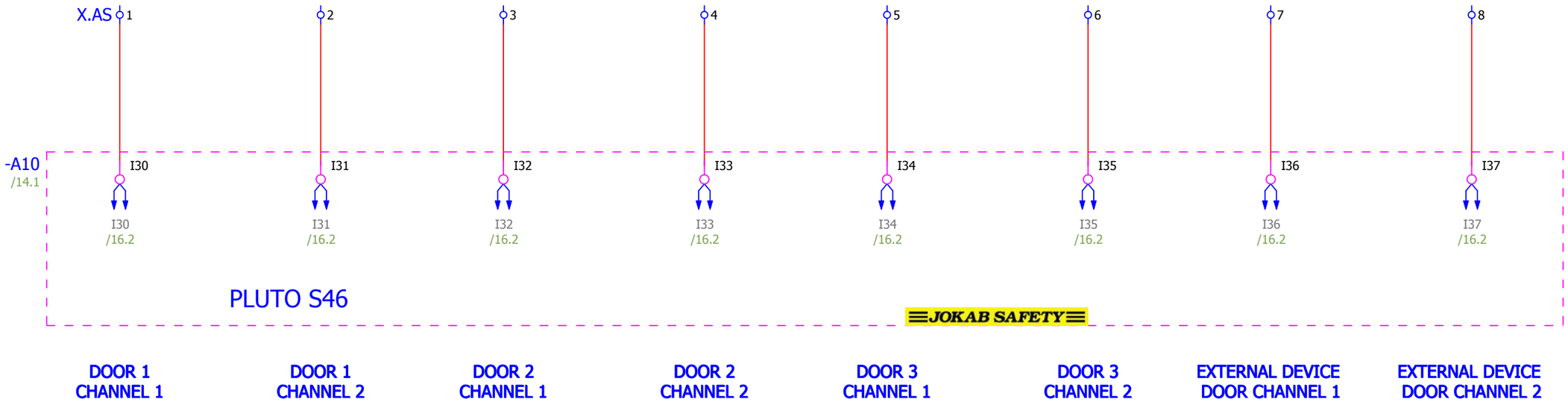

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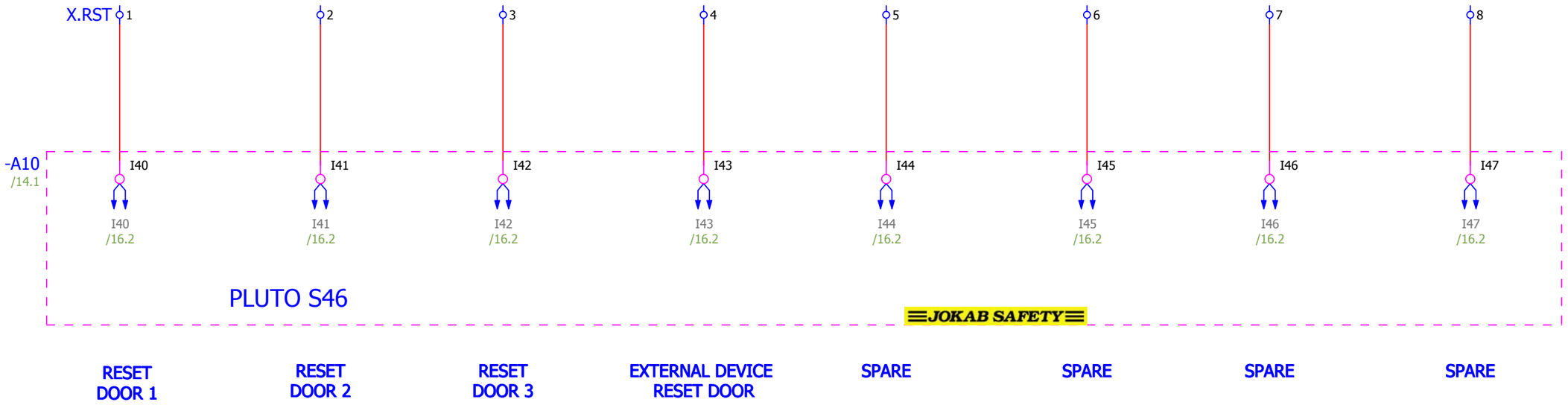

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INPUTS MODULE SAFE

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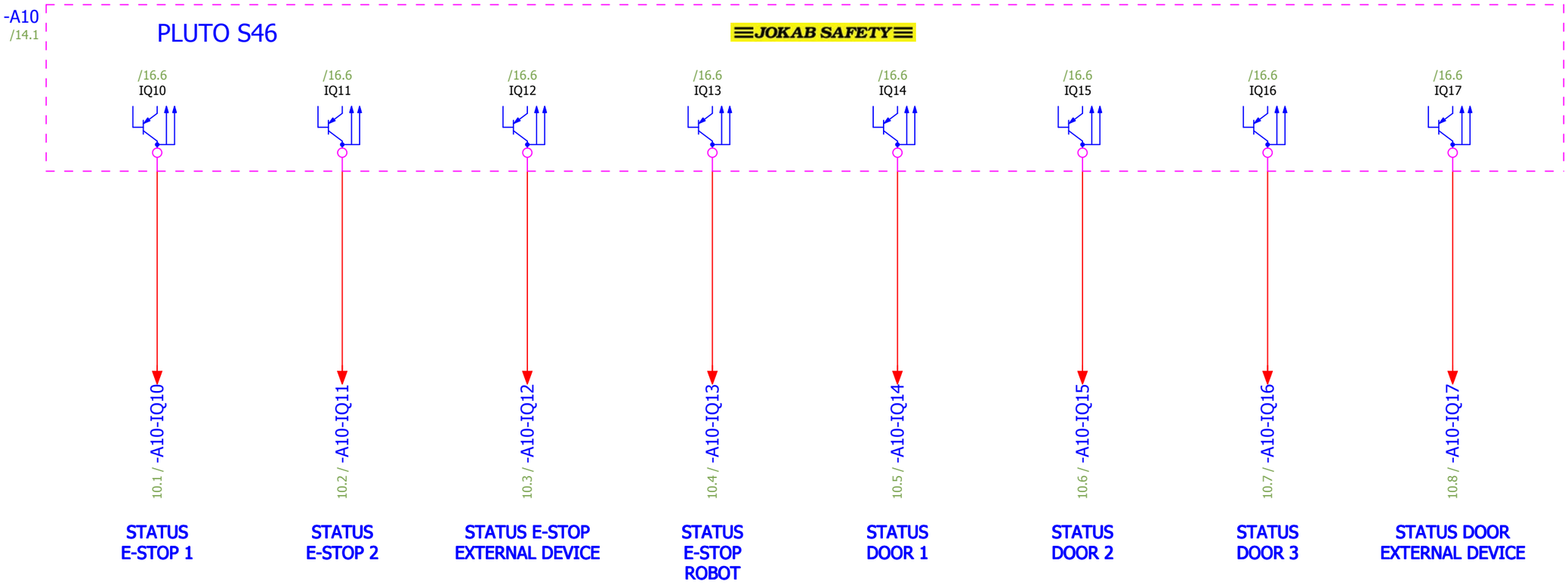

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INPUTS MODULE SAFE / OUTPUTS MODULE NON SAFE

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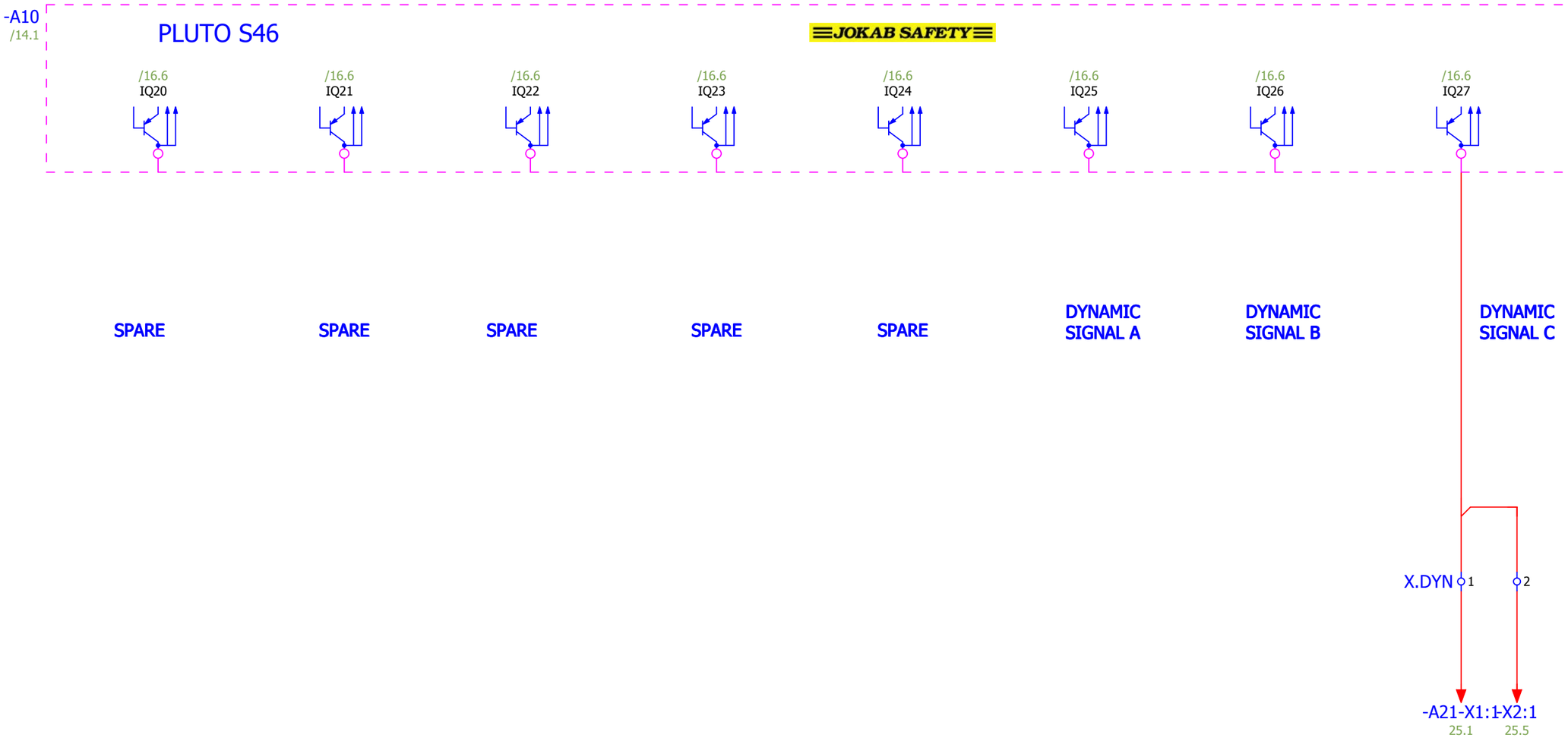

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/14.1

PLUTO S46

JOKAB SAFETY

/17.3 +24V	/17.3 0V	/17.3 ID	/17.3 0L	/17.3 Q0	/17.3 1L	/17.3 Q1	/17.3 Q2	/17.3 Q3	/17.3 Q4	/17.3 4L	/17.3 Q5
			0L	Q0	1L	Q1	Q2	Q3	Q4	4L	Q5
						SPARE					

4.3 / 24PLCS

4.6 / 0PLCS

24.1 / -A10-Q2

24.5 / -A10-Q3

24 VDC SUPPLY	0 VDC SUPPLY	SPARE	SPARE	GENERAL STOP EXPANSION MODULE	AUTOMATIC STOP EXPANSION MODULE	SPARE	SPARE

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OUTPUTS MODULE SAFE

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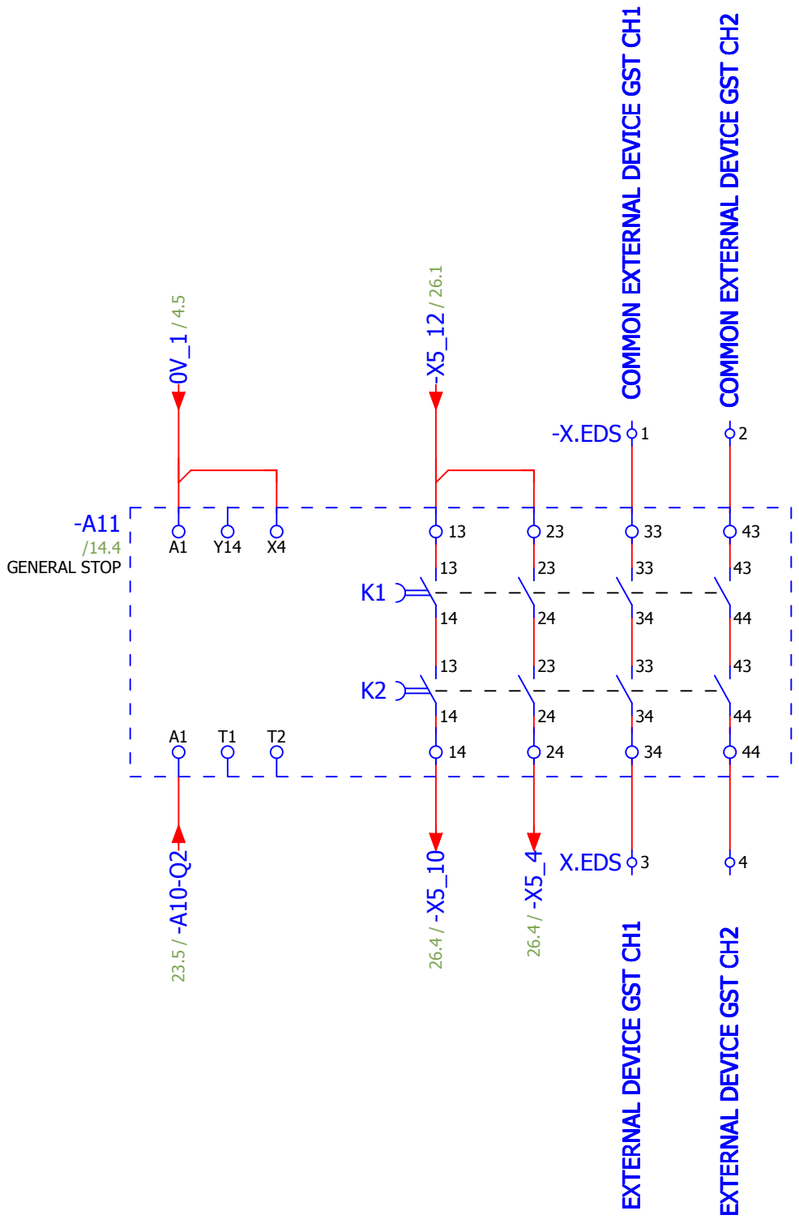
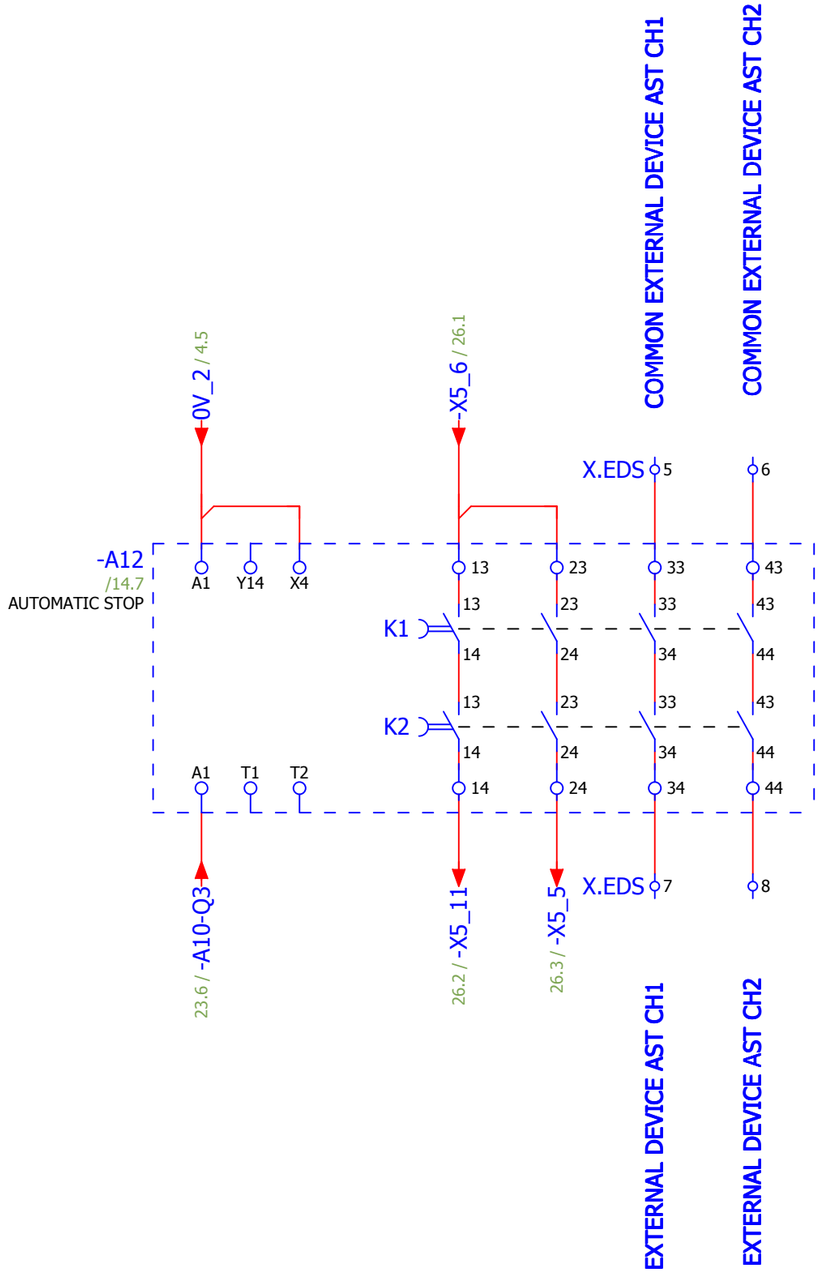


GENERAL STOP ROBOT & EXTERNAL DEVICE



AUTOMATIC STOP ROBOT & EXTERNAL DEVICE

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EXTENSION CONTACTS SAFE

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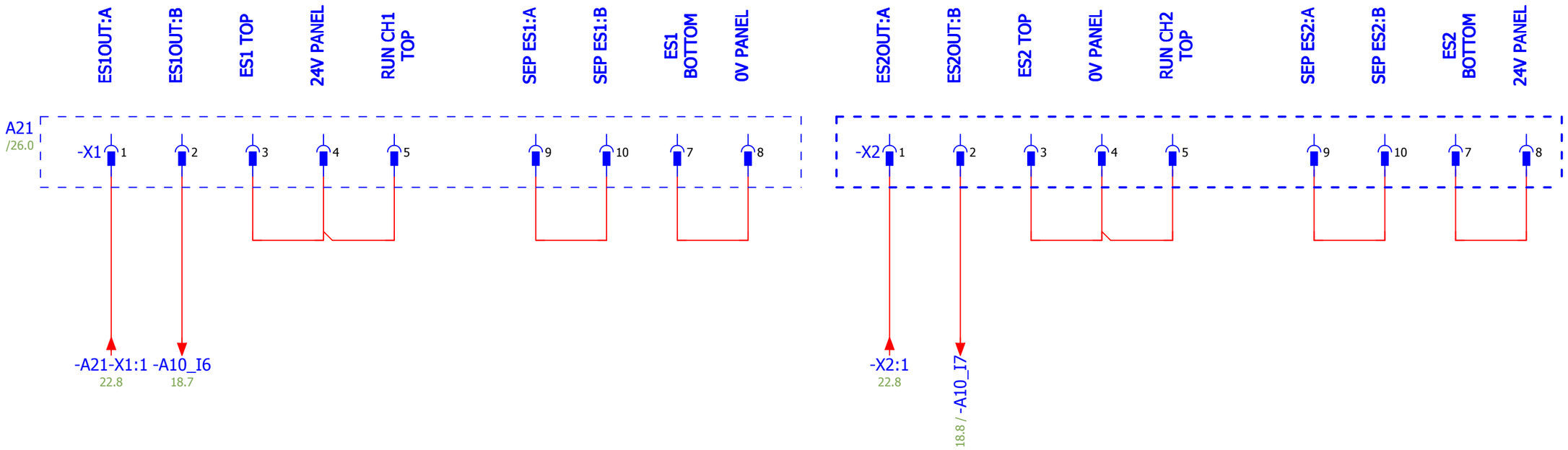

			Date	11/14/2011
			Ed.	Administrator
			Appr	
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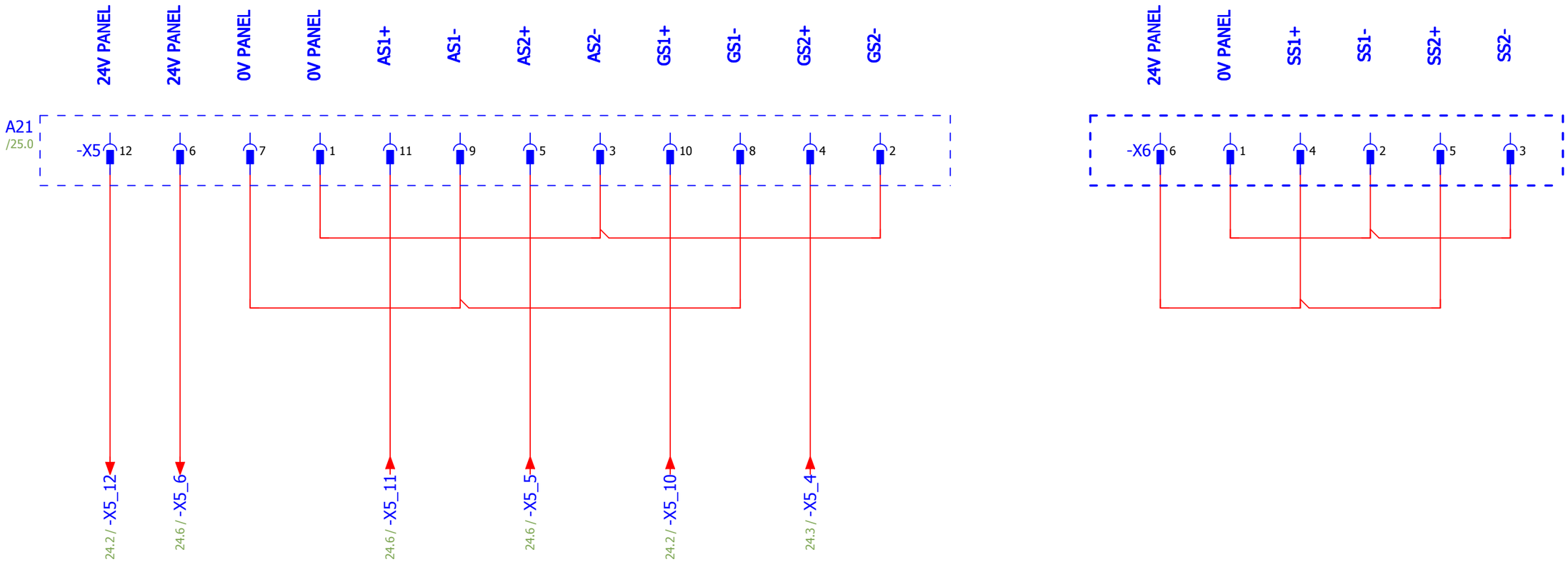

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SECURITY GENERAL STOP

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Terminal diagram

F13_002

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.0V						
	-A11	A1	1	-XT13	6	/4.5
	-A12	A1	2			/4.5
	-A1.1	-XZPUP:3	3			/4.6
	-A10		4			/4.6
0 VDC SUPPLY	-A1.2	1.9	5			/4.6
=	-A1.2	2.9	6			/4.6
=	-A1.2	3.9	7			/4.7
=	-A1.2	4.9	8			/4.7

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.AS						
DOOR 1 CHANNEL 1	-A10	I30	1			/19.1
DOOR 1 CHANNEL 2	-A10	I31	2			/19.2
DOOR 2 CHANNEL 1	-A10	I32	3			/19.3
DOOR 2 CHANNEL 2	-A10	I33	4			/19.4
DOOR 3 CHANNEL 1	-A10	I34	5			/19.5
DOOR 3 CHANNEL 2	-A10	I35	6			/19.6
EXTERNAL DEVICE DOOR CHANNEL 1	-A10	I36	7			/19.7
EXTERNAL DEVICE DOOR CHANNEL 2	-A10	I37	8			/19.8

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Terminal Diagram

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Terminal diagram

F13_002

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.DYN						
ES1OUT:A	-A21-X1	1	1	-A10	IQ27	/22.8
=	-X2	1	2			/22.8

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.EDS						
EXTERNAL DEVICE GST CH1	-A11	33	1			/24.3
EXTERNAL DEVICE GST CH2	-A11	43	2			/24.3
			3	-A11		/24.3
			4	-A11		/24.3
EXTERNAL DEVICE AST CH1	-A12	33	5			/24.7
EXTERNAL DEVICE AST CH2	-A12	43	6			/24.7
			7	-A12		/24.7
			8	-A12		/24.7

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Terminal diagram

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function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.ES						
EMERGENCY STOP 1 CHANNEL 1	-A10	I0	1			/18.1
EMERGENCY STOP 1 CHANNEL 2	-A10	I1	2			/18.2
EMERGENCY STOP 2 CHANNEL 1	-A10	I2	3			/18.3
EMERGENCY STOP 2 CHANNEL 2	-A10	I3	4			/18.4
EXTERNAL DEVICE EMERGENCY CHANNEL 1	-A10	I4	5			/18.5
EXTERNAL DEVICE EMERGENCY CHANNEL 2	-A10	I5	6			/18.6

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.Q1						
	-A1.1	-XZPUP:1	1	-Q1	2	/4.0
24 VDC SUPPLY	-A1.2	1.8	2			/4.1
=	-A1.2	2.8	3			/4.1
=	-A1.2	3.8	4			/4.1
=	-A1.2	4.8	5			/4.1
			6			/4.2
			7			/4.2
			8			/4.2

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Terminal diagram

F13_002

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.Q2						
24 VDC SUPPLY	-A10		1	-Q2	2	/4.3
			2			/4.3
			3			/4.3
			4			/4.4
			5			/4.4
			6			/4.4
			7			/4.4
			8			/4.5

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-X.RST						
RESET DOOR 1	-A10	I40	1			/20.1
RESET DOOR 2	-A10	I41	2			/20.2
RESET DOOR 3	-A10	I42	3			/20.3
EXTERNAL DEVICE RESET DOOR	-A10	I43	4			/20.4
SPARE	-A10	I44	5			/20.5
=	-A10	I45	6			/20.6
=	-A10	I46	7			/20.7
=	-A10	I47	8			/20.8

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Terminal diagram

F13_002

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / column
=CAB+CONTROLLER-XT13						
SUPPLY PLC	-Q1	1	2	-G4-X2		/4.0
SUPPLY SAFETY PLC	-Q2	1	3	-G4-X2		/4.1
=	-X.0V	1:1	6	-G4-X2		/4.1
			7	-G4-X2		/4.2

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Plug diagram

F22_002

Plug	Plug target	contact	Female pin target	Page / column
=CAB+CONTROLLER-A21-X1				
	-X.DYN:1	1		/25.1
	-A10:I6	2		/25.1
	-A21-X1:4	3		/25.1
	-A21-X1:3;-A21-X1:5	4		/25.2
	-A21-X1:4	5		/25.2
	-A21-X1:8	7		/25.4
	-A21-X1:7	8		/25.4
	-A21-X1:10	9		/25.3
	-A21-X1:9	10		/25.3

Plug	Plug target	contact	Female pin target	Page / column
=CAB+CONTROLLER-A21-X5				
	-A21-X5:3	1		/26.2
	-A21-X5:3	2		/26.5
	-A21-X5:1;-A21-X5:2	3		/26.3
	-A11	4		/26.4
	-A12	5		/26.3
	-A12:13	6		/26.1
	-A21-X5:9	7		/26.1
	-A21-X5:9	8		/26.4
	-A21-X5:7;-A21-X5:8	9		/26.3
	-A11	10		/26.4
	-A12	11		/26.2
	-A11:13	12		/26.1

Plug	Plug target	contact	Female pin target	Page / column
=CAB+CONTROLLER-X2				
	-X.DYN:2	1		/25.5
	-A10:I7	2		/25.5
	-X2:4	3		/25.6

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Plug Diagram

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Plug diagram

F22_002

Plug	Plug target	contact	Female pin target	Page / column
=CAB+CONTROLLER-X2				
	-X2:3;-X2:5	4		/25.6
	-X2:4	5		/25.6
	-X2:8	7		/25.8
	-X2:7	8		/25.8
	-X2:10	9		/25.7
	-X2:9	10		/25.8

Plug	Plug target	contact	Female pin target	Page / column
=CAB+CONTROLLER-X6				
	-X6:2	1		/26.7
	-X6:1;-X6:3	2		/26.8
	-X6:2	3		/26.8
	-X6:6;-X6:5	4		/26.7
	-X6:4	5		/26.8
	-X6:4	6		/26.6

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Plug Diagram

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