



EUROPEAN
SPALLATION
SOURCE

Projekt name:

SLOW INTERLOCK MODULE-CERN



System:

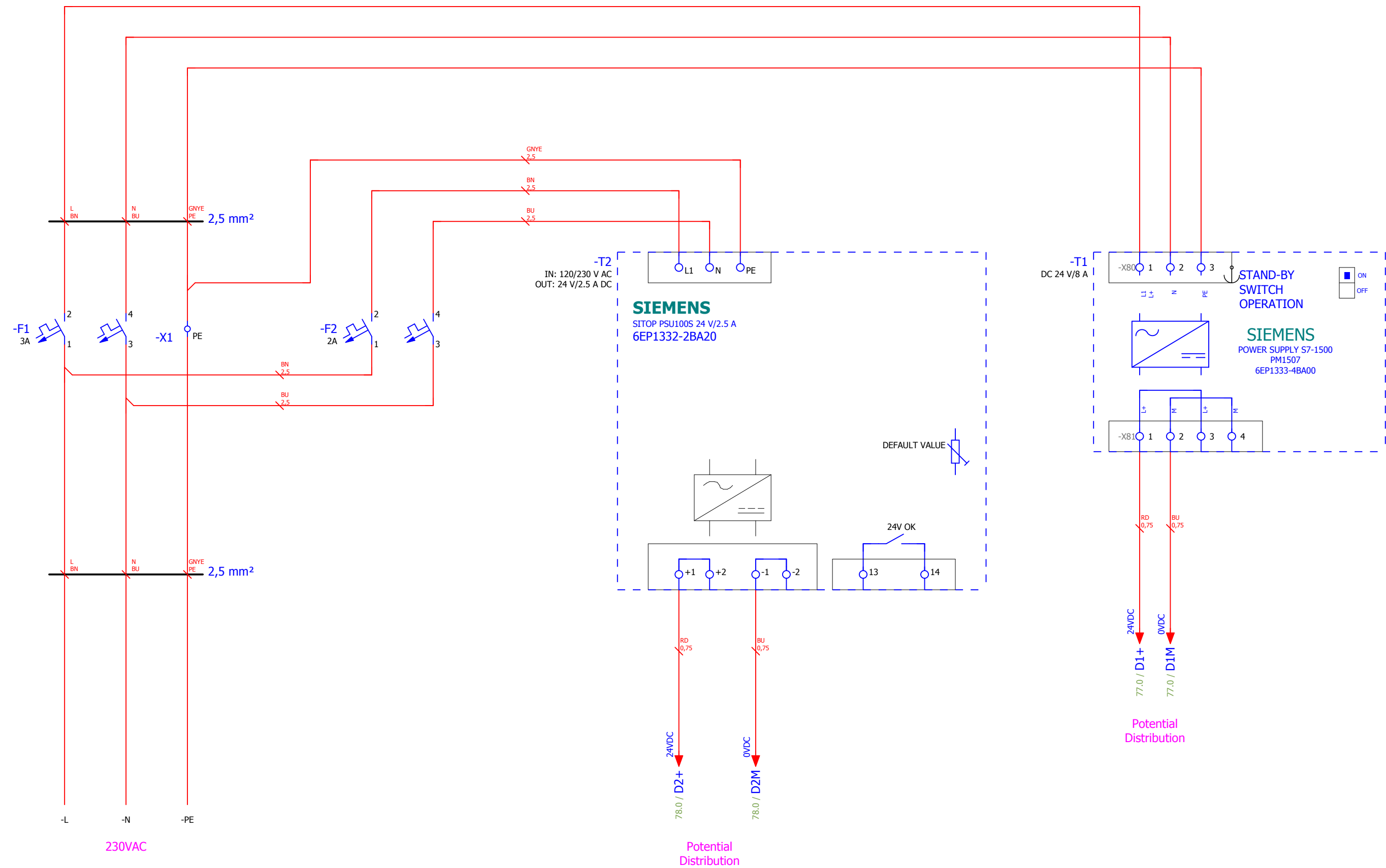
ESS.ACC.DTL

Location:



SIM

= ESS.ACC.DTL
+ SIM

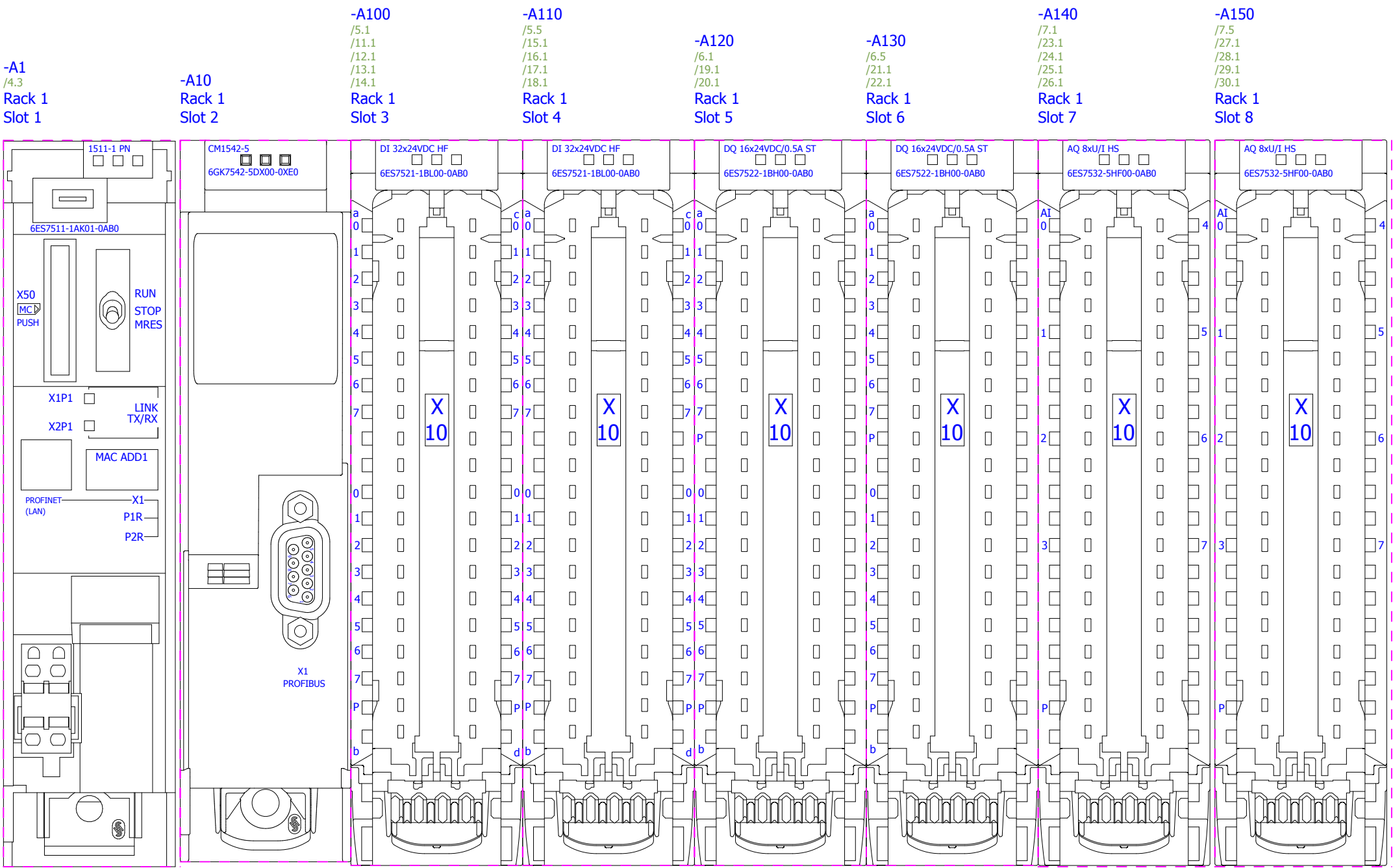
 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 <div>V2.5.4</div>	DESIGN SITE	Title page		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
					=ESS.ACC.DTL+SIM&AA/1			
					NEXT			
					&FS/1			





= ESS.ACC.DTL
+ SIM

<div><div>EUROPEAN SPALLATION SOURCE</div><div>Documentation protection ISO 16016</div></div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	<div><div>V2.5.4</div></div>	DESIGN SITE	Power supply		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
					=ESS.ACC.DTL+SIM&FS/1			
					NEXT			
			ESS		2			

SIMATIC S7-1500

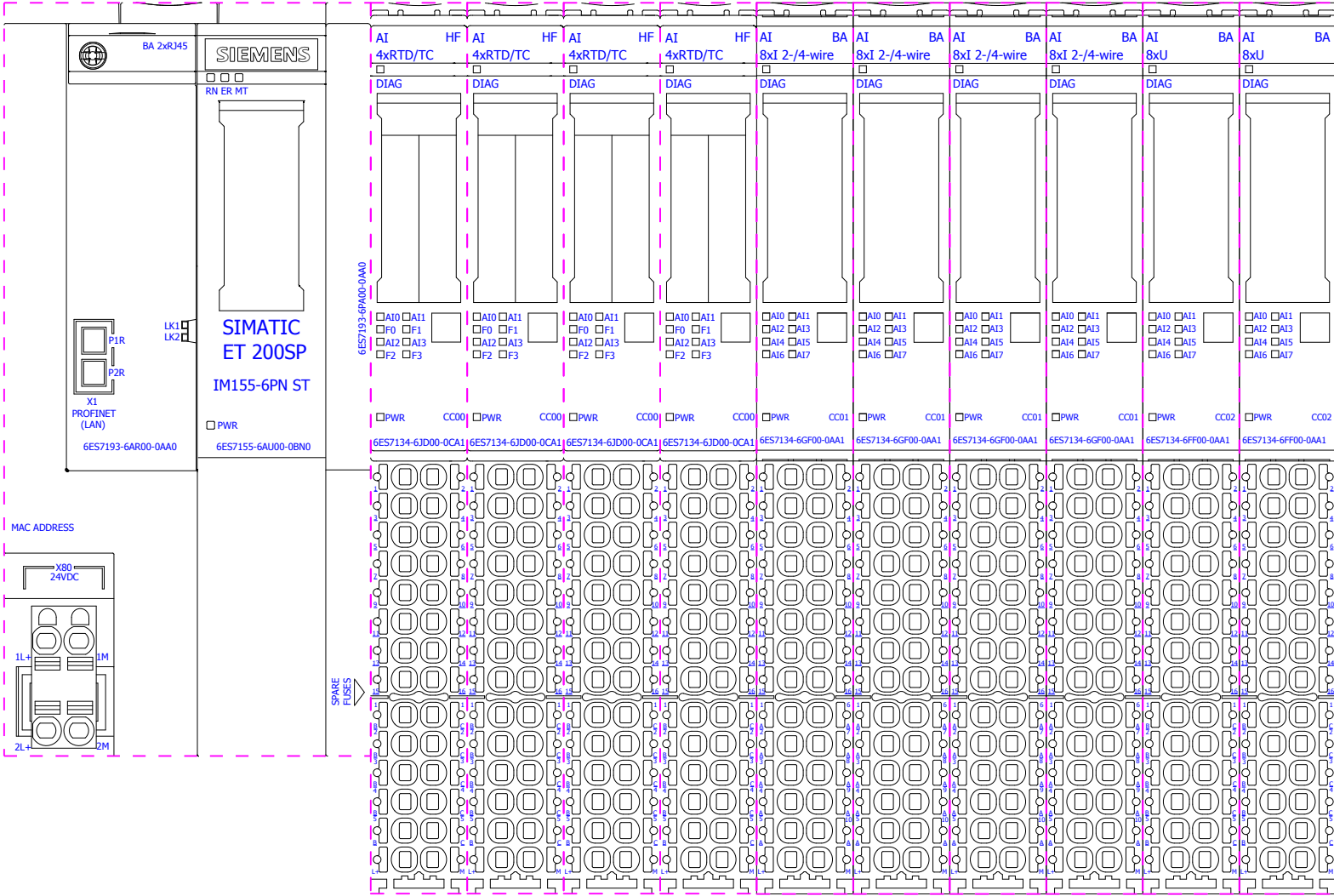


= ESS.ACC.DTL
+ SIM


 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
			PLC Overview		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
 <div>V2.5.4</div>	DESIGN SITE	ESS	PLC Overview		=ESS.ACC.DTL+SIM&FS/2			
					NEXT			
					3			

SIMATIC ET200SP

-A2
/8.3
Rack 2
Slot 1
SIE.6ES7155-6AA00-0BNO
SIE.6GK1901-1BB10-2AA0





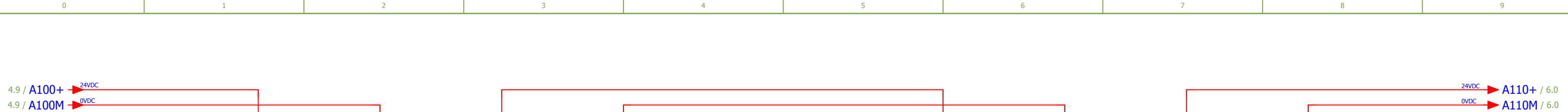
= ESS.ACC.DTL
+ SIM

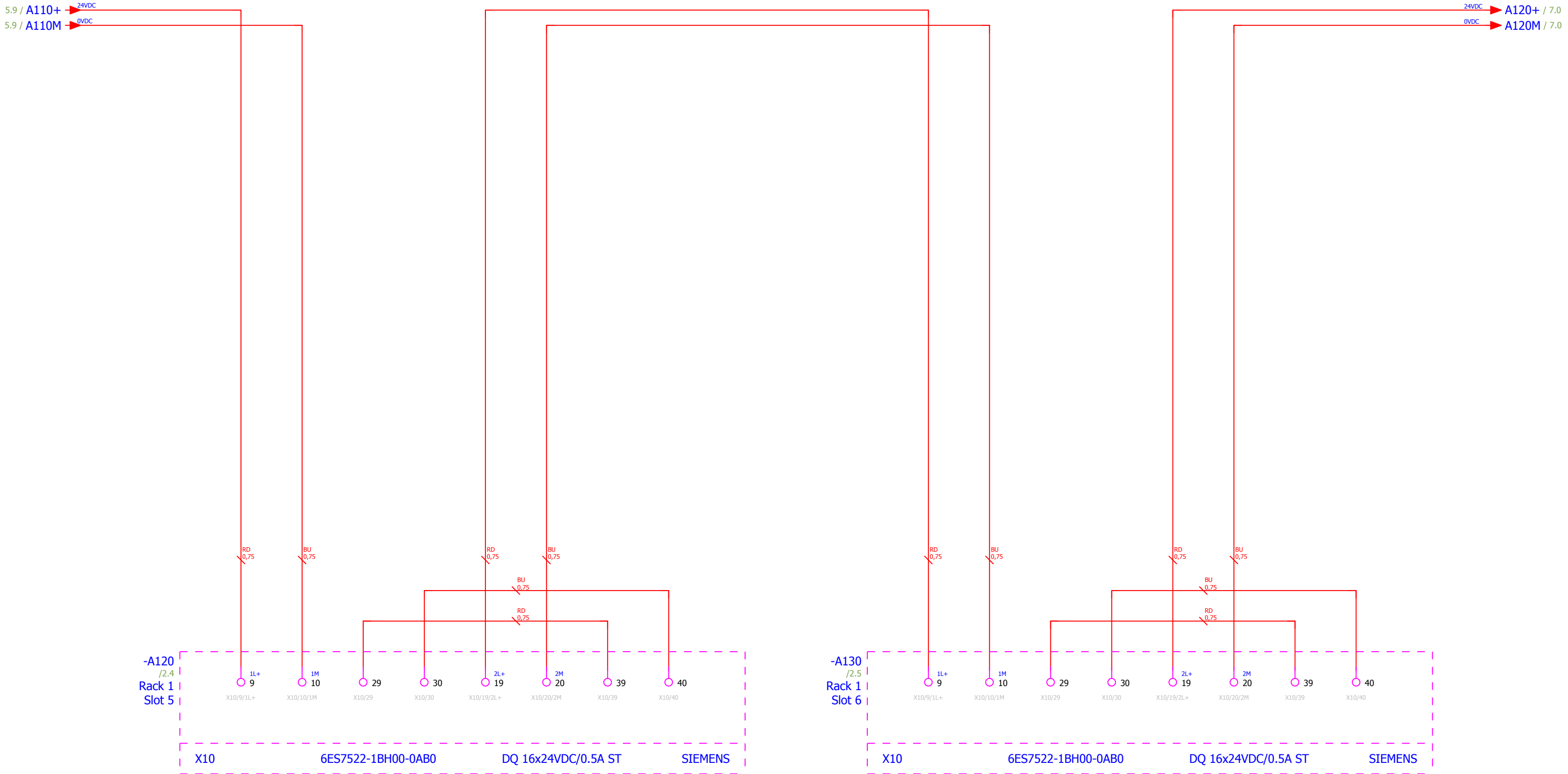
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	Project template ESS		ESS-xxxxxxx					
	CHECKED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	PLC Overview		Preliminary		A3	1	0.1	
	APPROVED BY	Date	FUNCTION		SHEET			
ePLAN® electric 8 V2.5.4		DESIGN SITE	ESS		=ESS.ACC.DTL+SIM&FS/3			
					NEXT			
					4			



= ESS.ACC.DTL
+ SIM

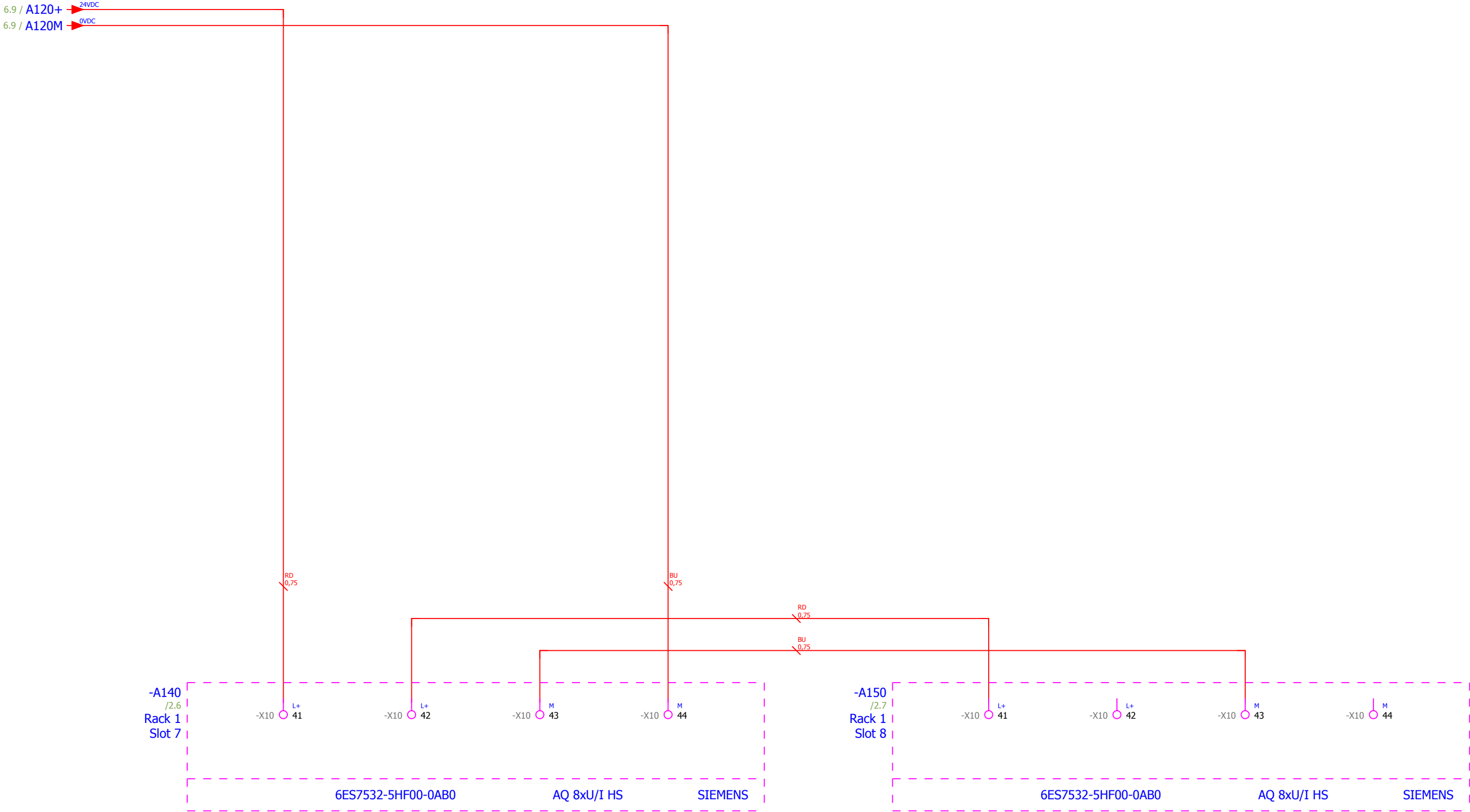
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	CHECKED BY	Date	Project template ESS	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	APPROVED BY	Date	PLC Supply	Preliminary	A3	1	0.1
	 <div>V2.5.4</div>	DESIGN SITE	FUNCTION	SHEET			
	ESS	Digital inputs Switches for control of pump 1-3	=ESS.ACC.DTL+SIM&FS/4				
				NEXT			
				5			







= ESS.ACC.DTL

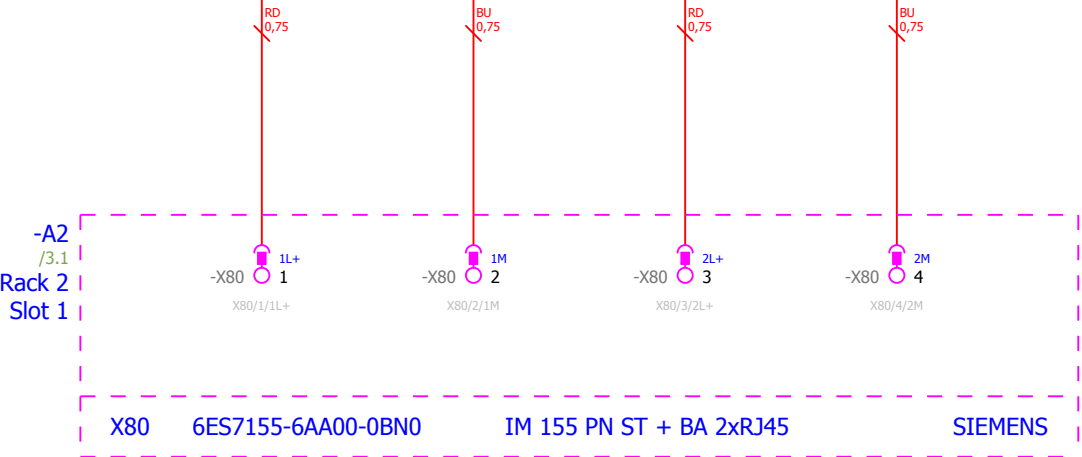
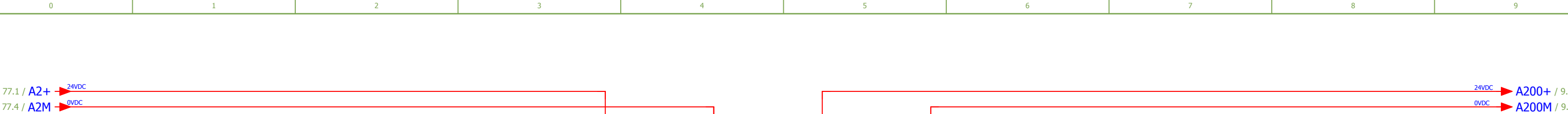
+ SIM

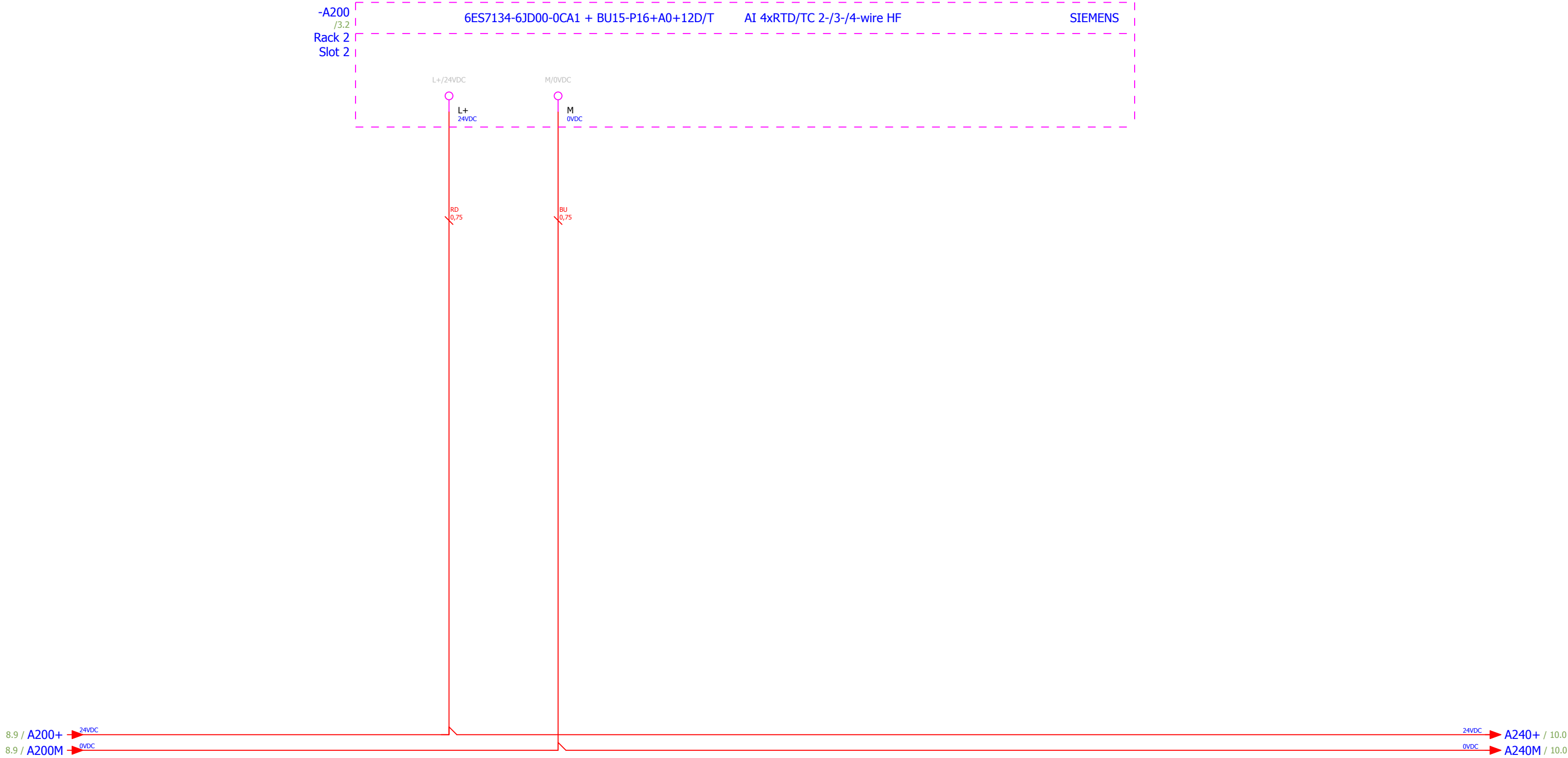


= ESS.ACC.DTL

+ SIM

<div><div></div><div><div>EUROPEAN SPALLATION SOURCE</div><div>Documentation protection ISO 16016</div></div></div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	<div><div></div><div>V2.5.4</div></div>	DESIGN SITE	PLC Supply		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital inputs		=ESS.ACC.DTL+SIM&FS/7			
			Switches for control of pump 1-3		NEXT			
			ESS		8			





= ESS.ACC.DTL
+ SIM

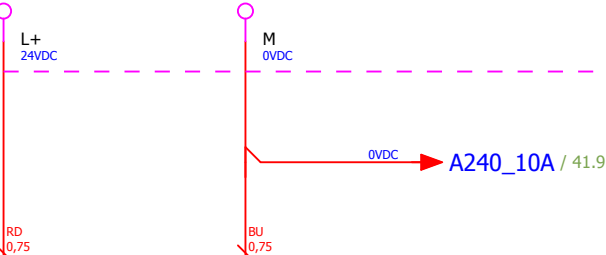
9.9 / A240+ → 24VDC
9.9 / A240M → 0VDC

-A240
/3.3

6ES7134-6GF00-0AA1 + BU15-P16+A10+2D

AI 8xI 2-/4-wire BA

SIEMENS

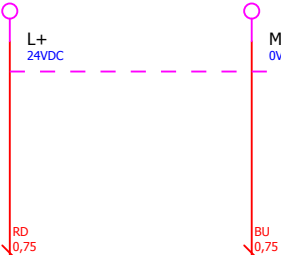


-A280
/3.5
Rack 2
Slot 10



6ES7134-6FF00-0AA1 + BU15-P16+A0+12D-T

AI 8xU BA

SIEMENS

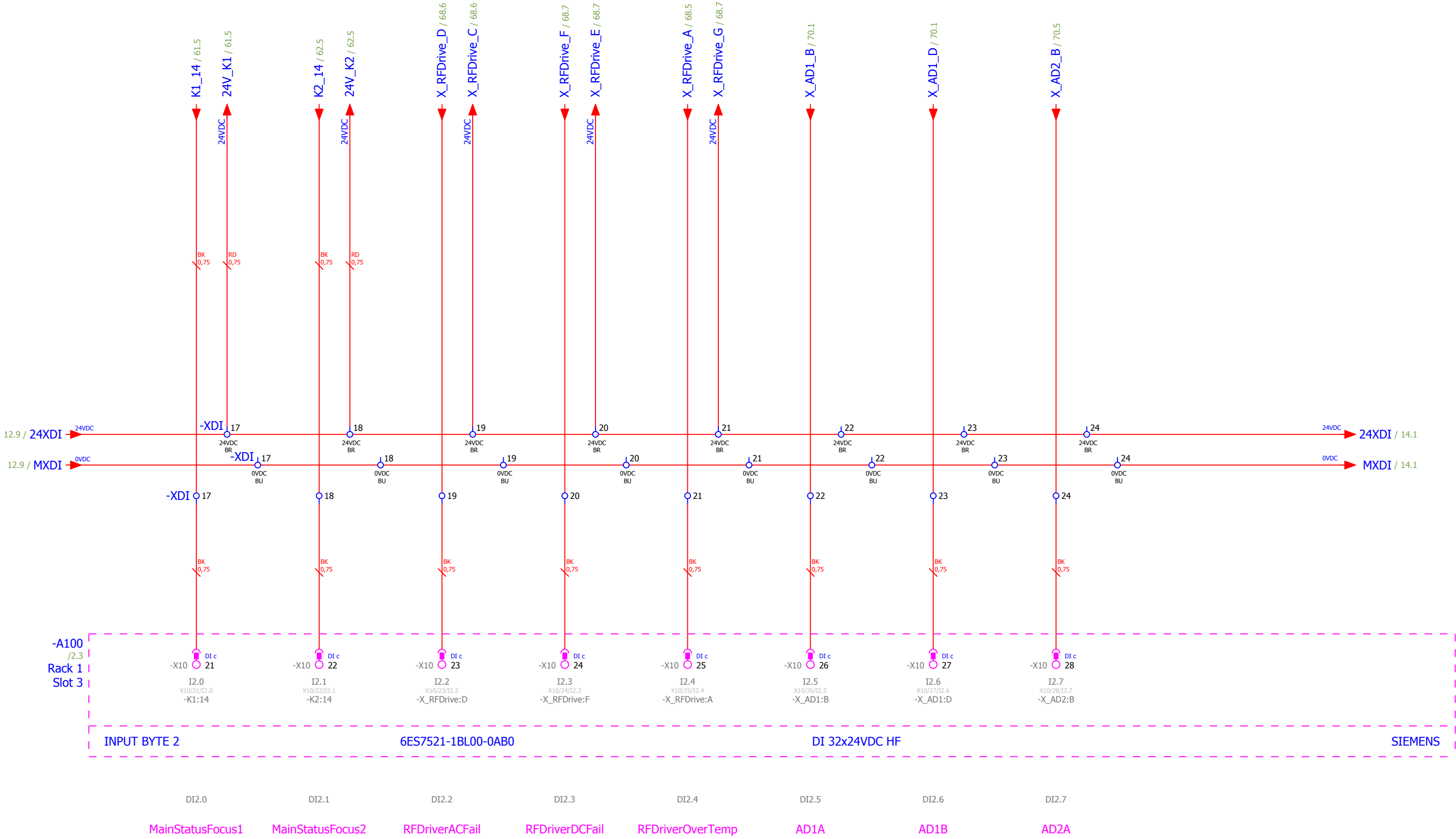


= ESS.ACC.DTL
+ SIM

 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	PLC Supply		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital inputs		=ESS.ACC.DTL+SIM&FS/10			
			Switches for control of pump 1-3		NEXT			
			ESS		11			

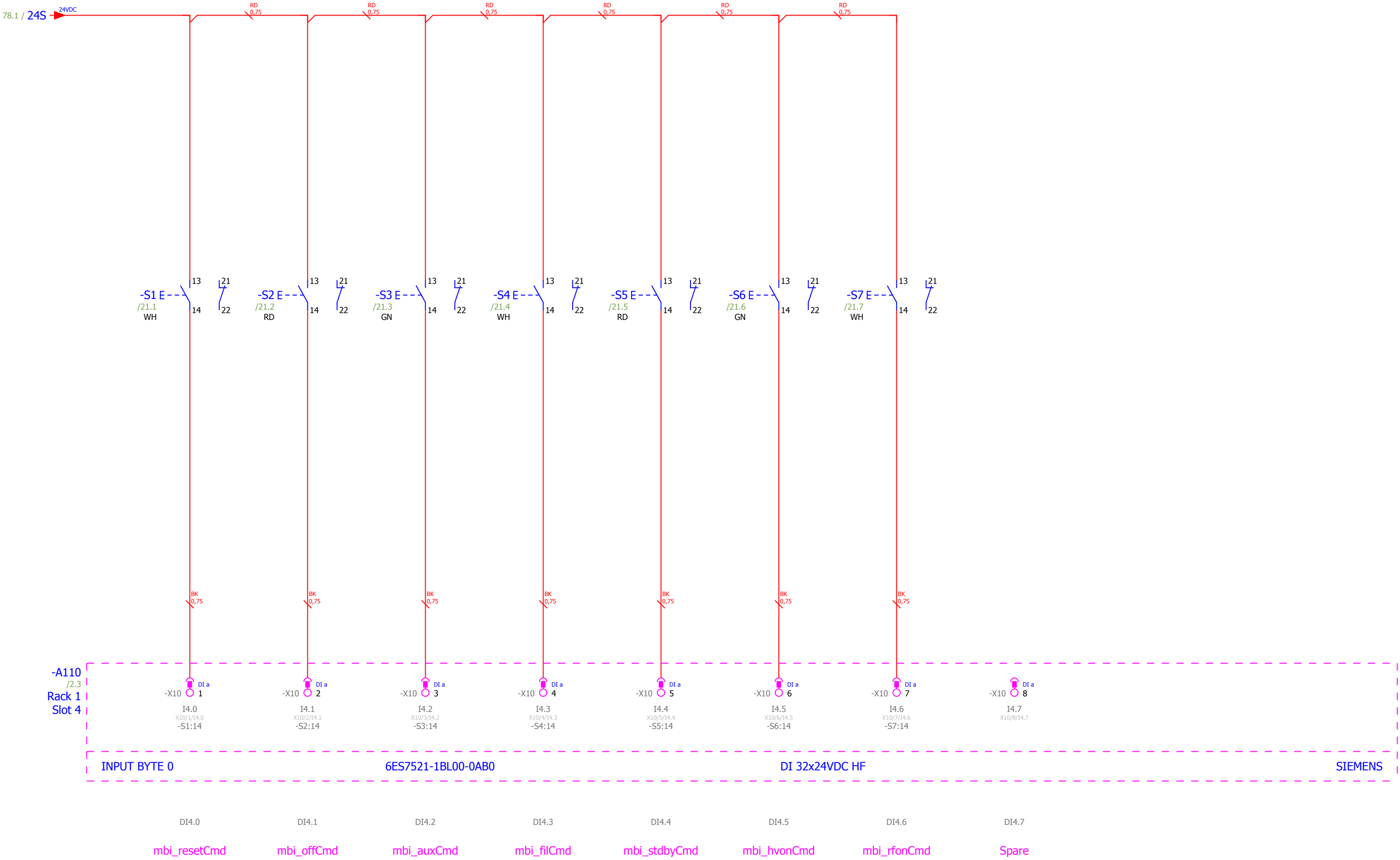






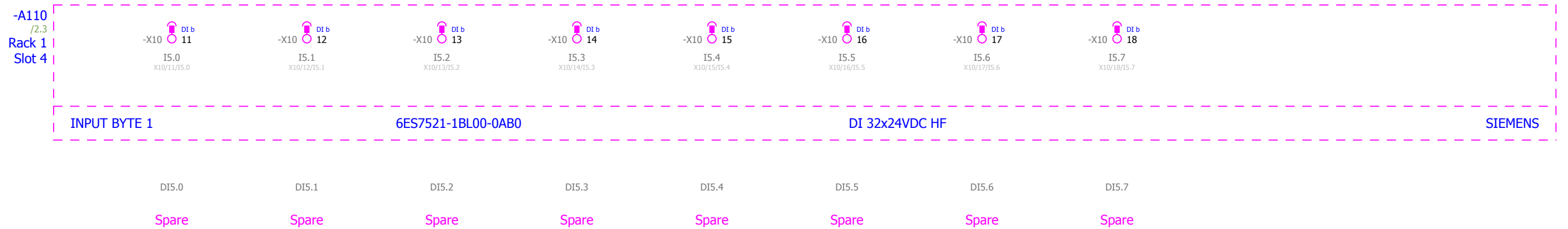
= ESS.ACC.DTL
+ SIM






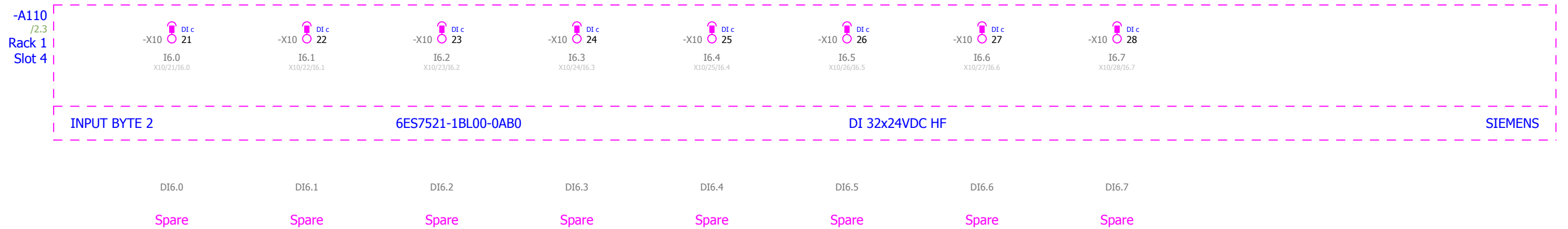
= ESS.ACC.DTL

+ SIM




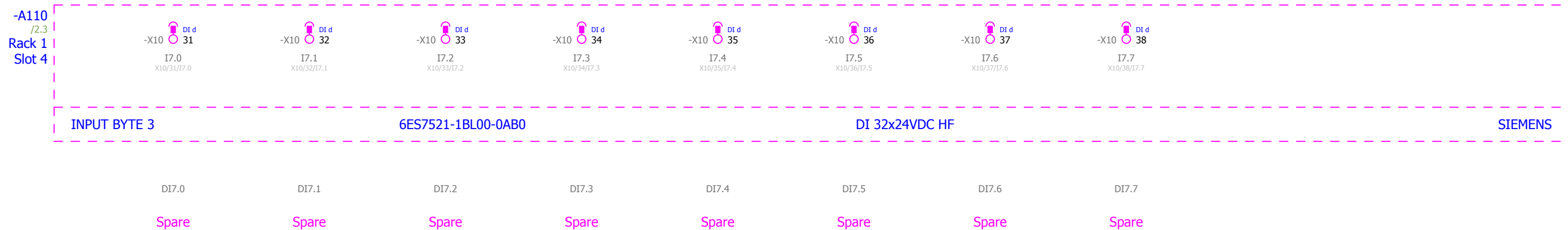
= ESS.ACC.DTL
+ SIM

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	<div>CHECKED BY</div> <div></div>	<div>Date</div> <div></div>	<div>PAGE DESCRIPTION</div> <div>PLC Digital input</div>	<div>LIFECYCLE LABEL</div> <div>Preliminary</div>	<div>PAGE SIZE</div> <div>A3</div>	<div>PAGE SCALE</div> <div>1</div>	<div>REV</div> <div>0.1</div>
	<div>APPROVED BY</div> <div></div>	<div>Date</div> <div></div>	<div>FUNCTION</div> <div>Digital inputs</div>	<div>SHEET</div> <div>=ESS.ACC.DTL+SIM&FS/16</div>			
	<div>DESIGN SITE</div> <div>ESS</div>	<div>Switches for control of pump 1-3</div>		<div>NEXT</div> <div>17</div>			



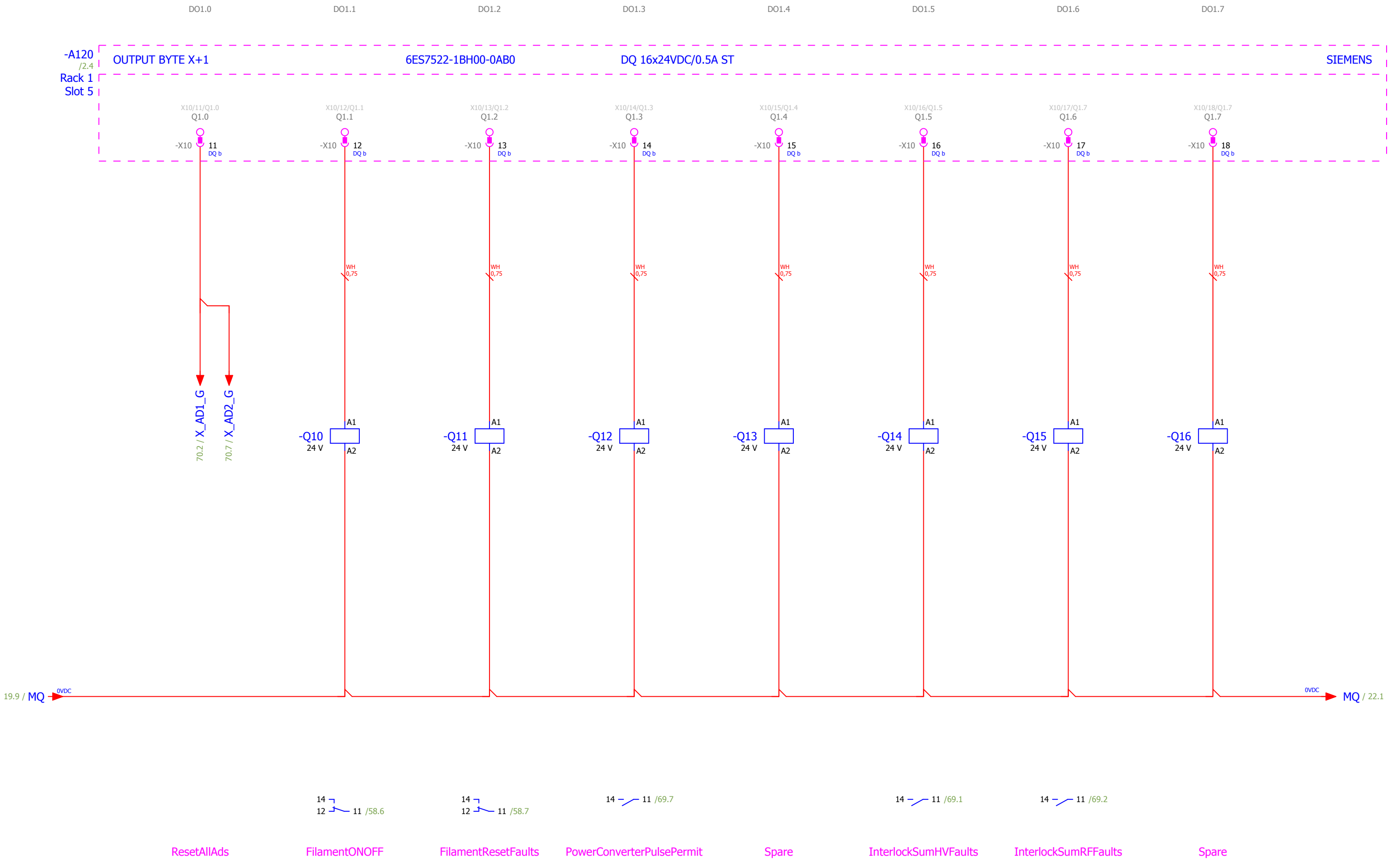
= ESS.ACC.DTL
+ SIM

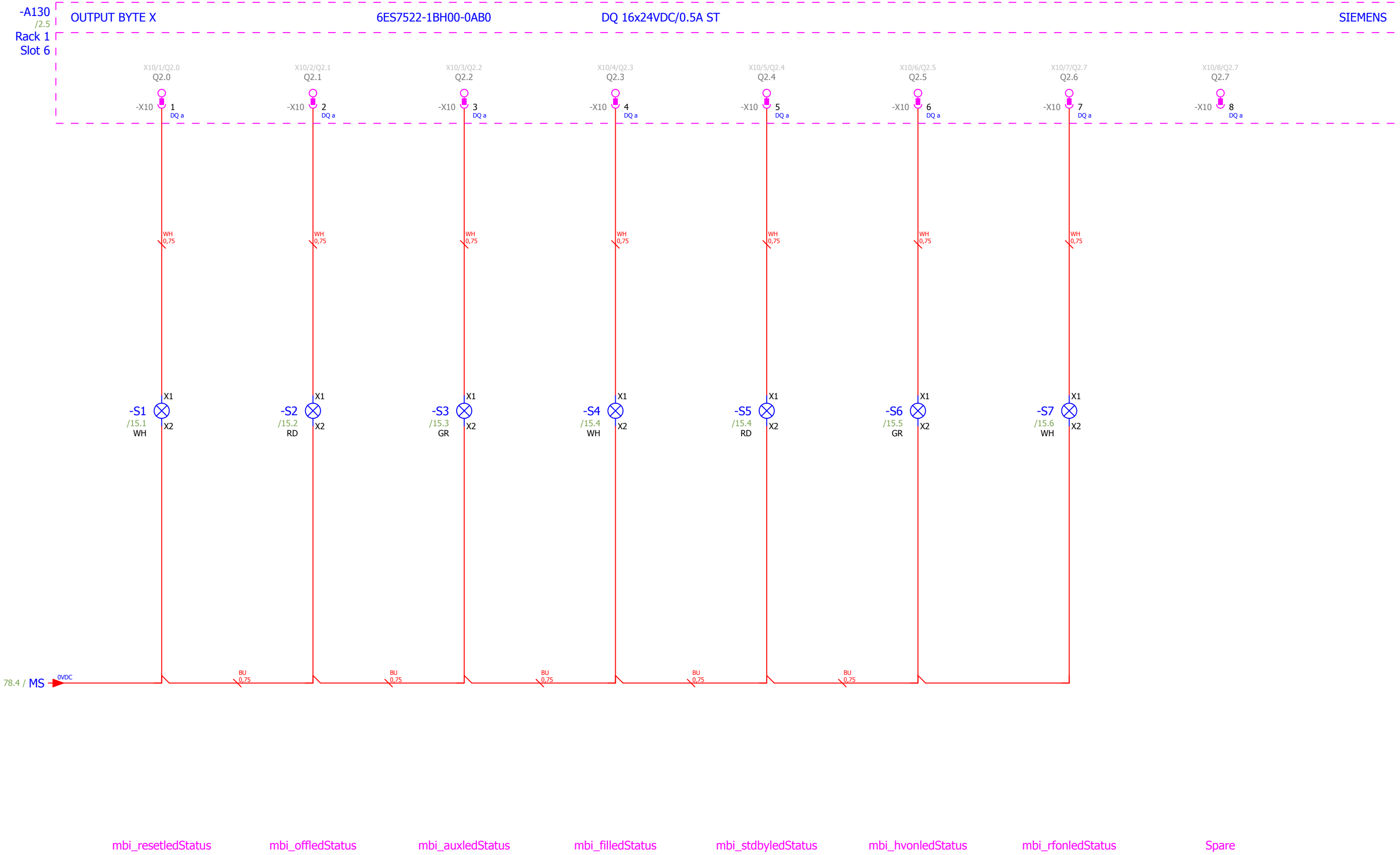
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	<div>APPROVED BY</div> <div></div>	<div>Date</div> <div></div>	<div>FUNCTION</div> <div>Digital inputs</div>	<div>SHEET</div> <div>=ESS.ACC.DTL+SIM&FS/17</div>			
	<div>DESIGN SITE</div> <div>ESS</div>		<div>Switches for control of pump 1-3</div>	<div>NEXT</div> <div>18</div>			





= ESS.ACC.DTL
+ SIM







= ESS.ACC.DTL
+ SIM

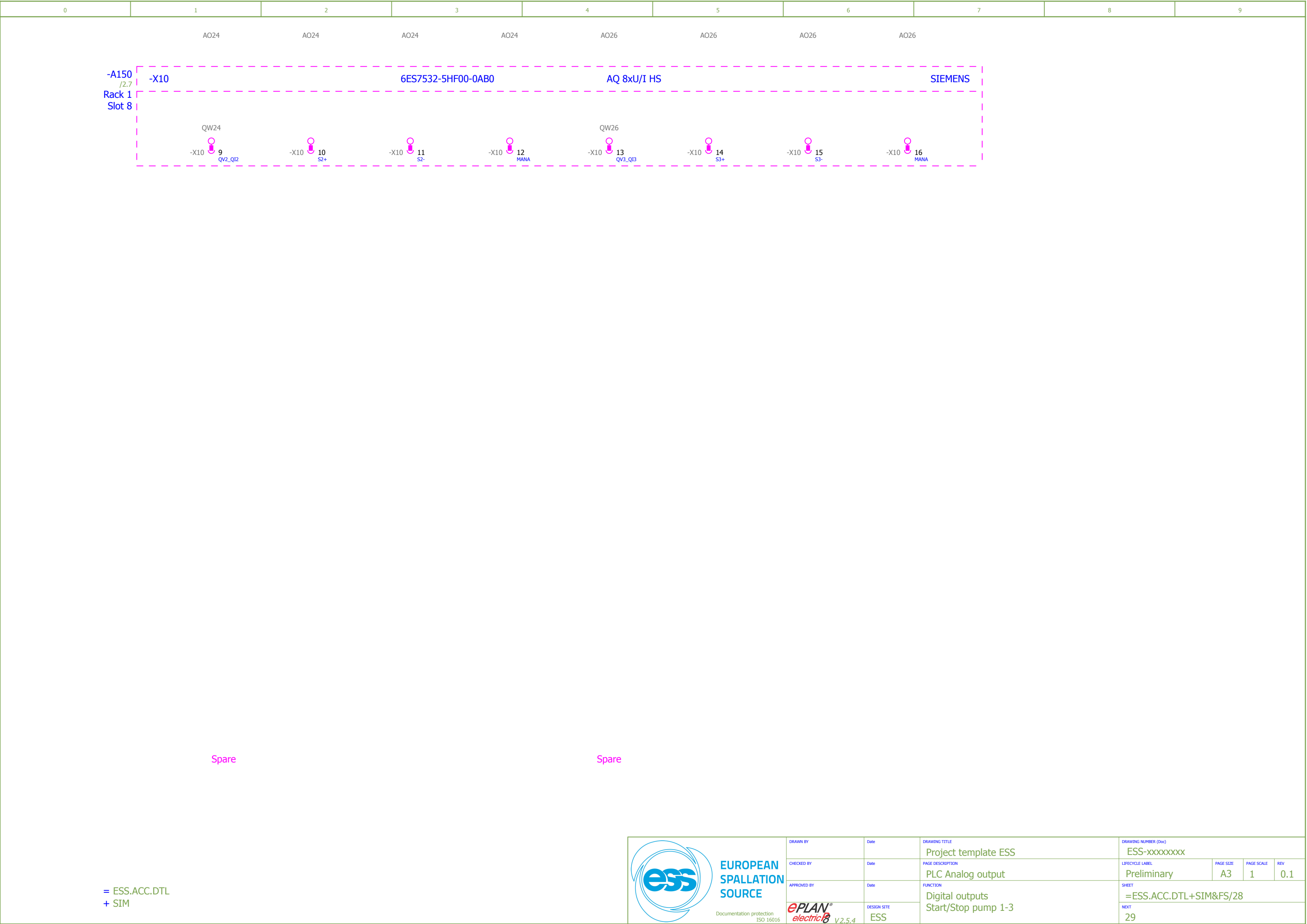
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	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	PLC Digital output		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital outputs		=ESS.ACC.DTL+SIM&FS/21			
			Start/Stop pump 1-3		NEXT			
			ESS		22			



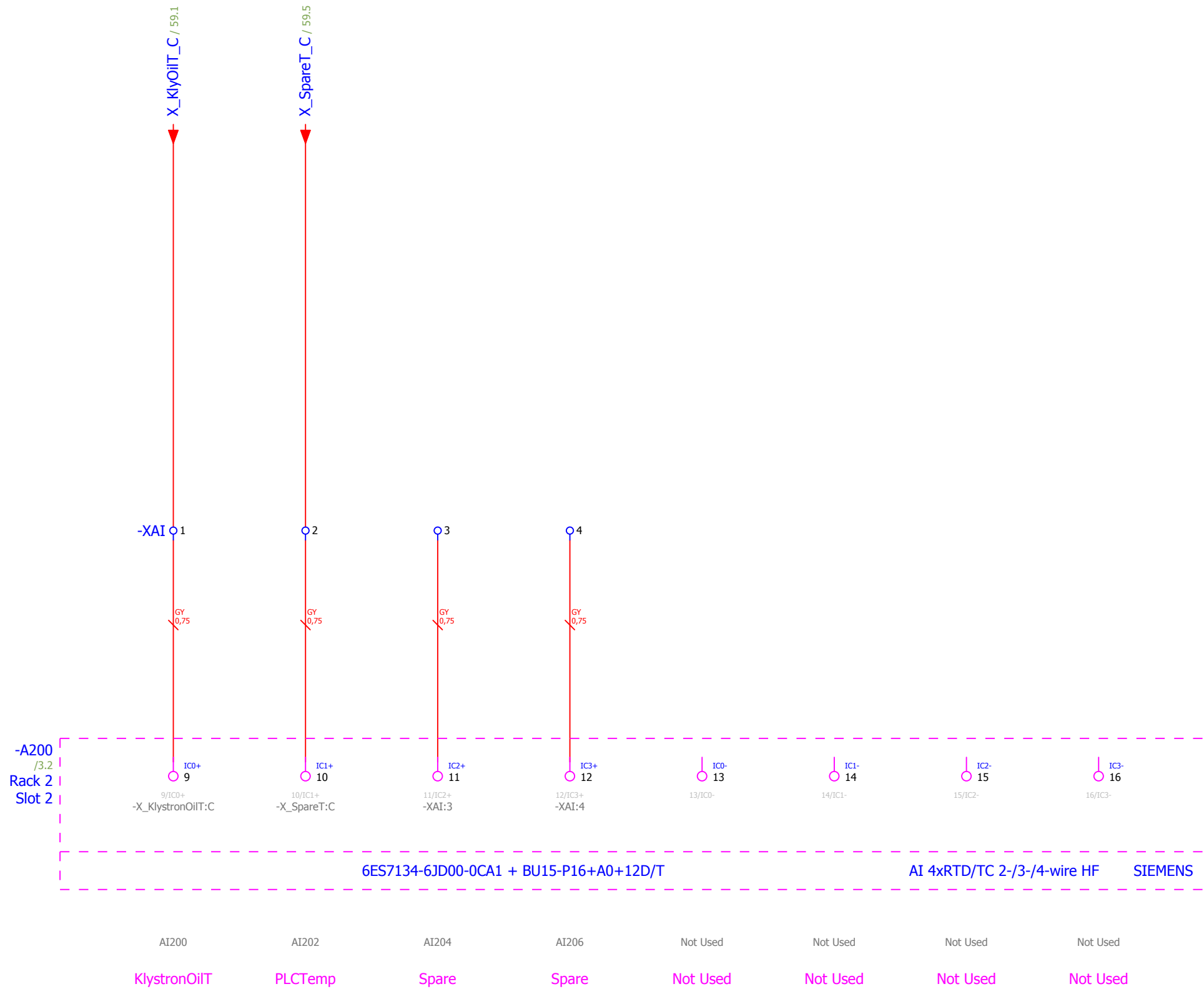













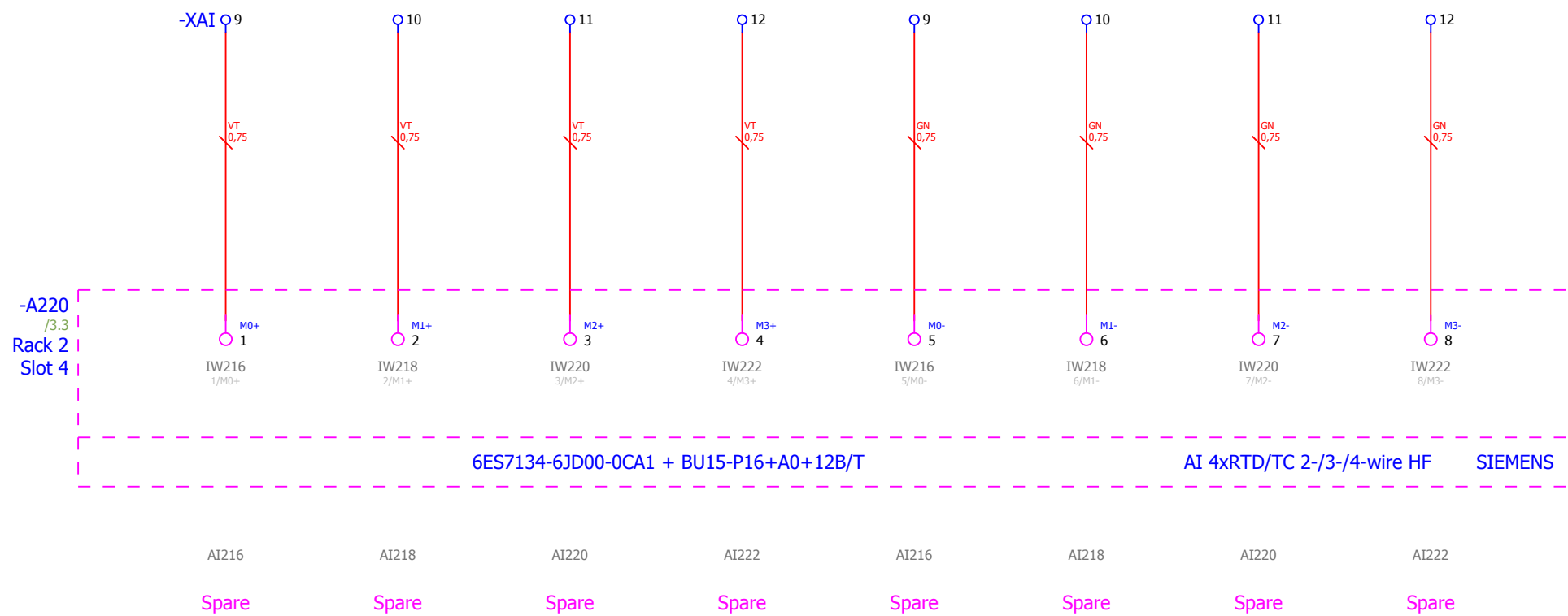
= ESS.ACC.DTL
+ SIM



DRAWN BY	Date	DRAWING TITLE	DRAWING NUMBER (Doc)		
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CHECKED BY	Date	PAGE DESCRIPTION	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE
		PLC Analog input	Preliminary	A3	1
APPROVED BY	Date	FUNCTION	REV		
	DESIGN SITE	Digital inputs	SHEET		
	ESS	Switches for control of pump 1-3	=ESS.ACC.DTL+SIM&FS/32		
			NEXT		
			33		




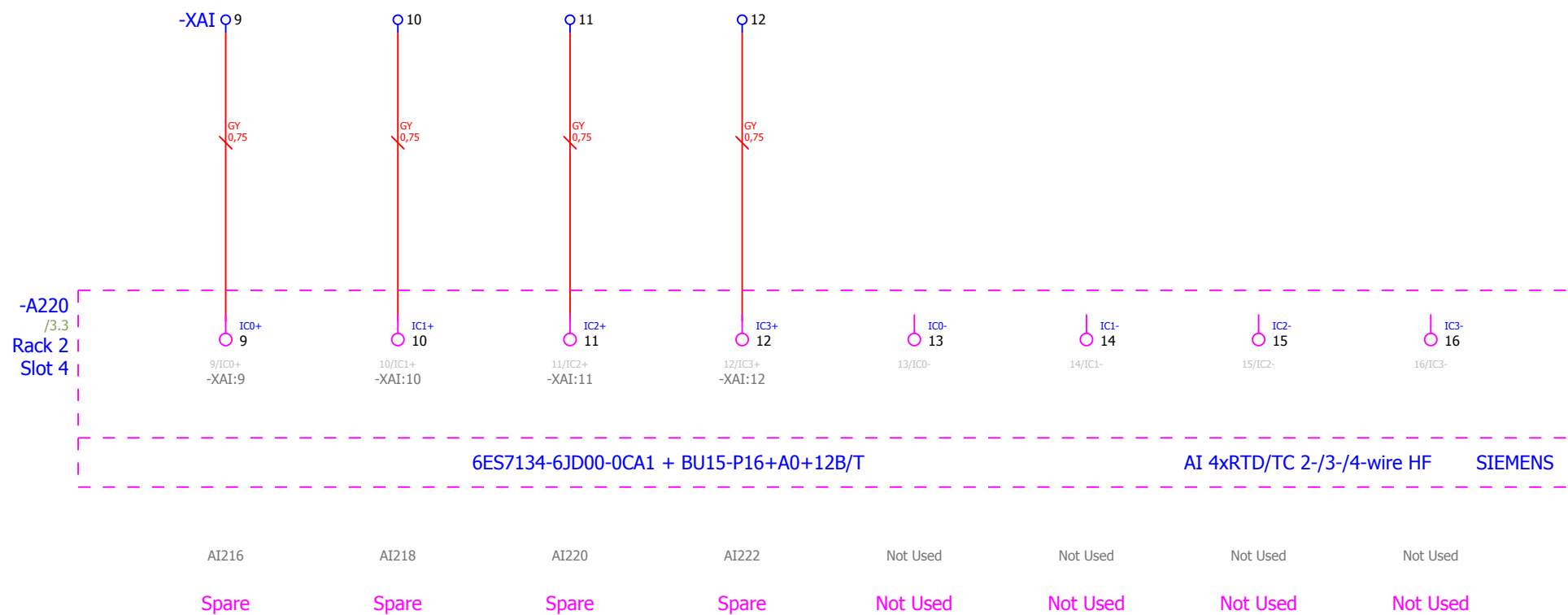






= ESS.ACC.DTL
+ SIM

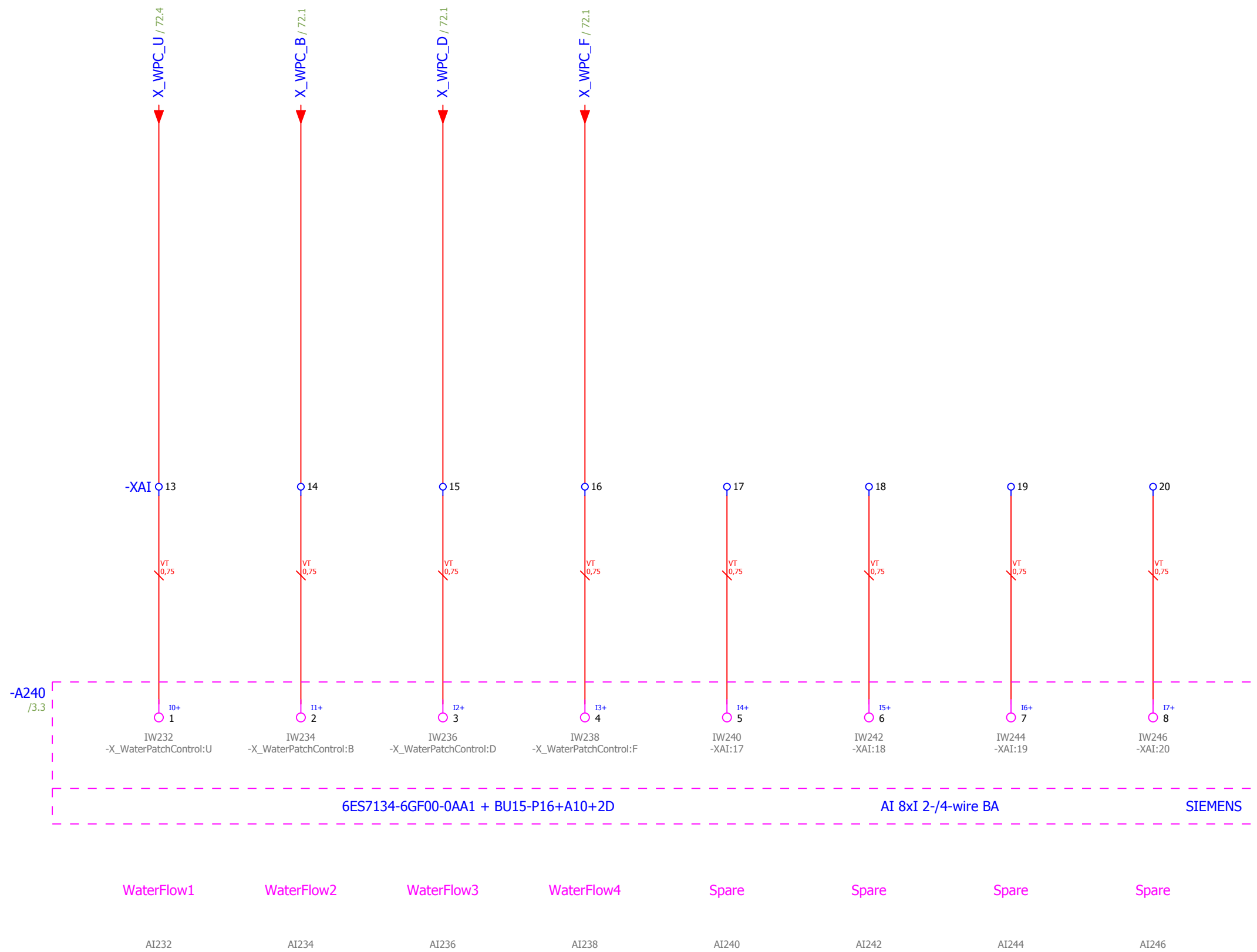


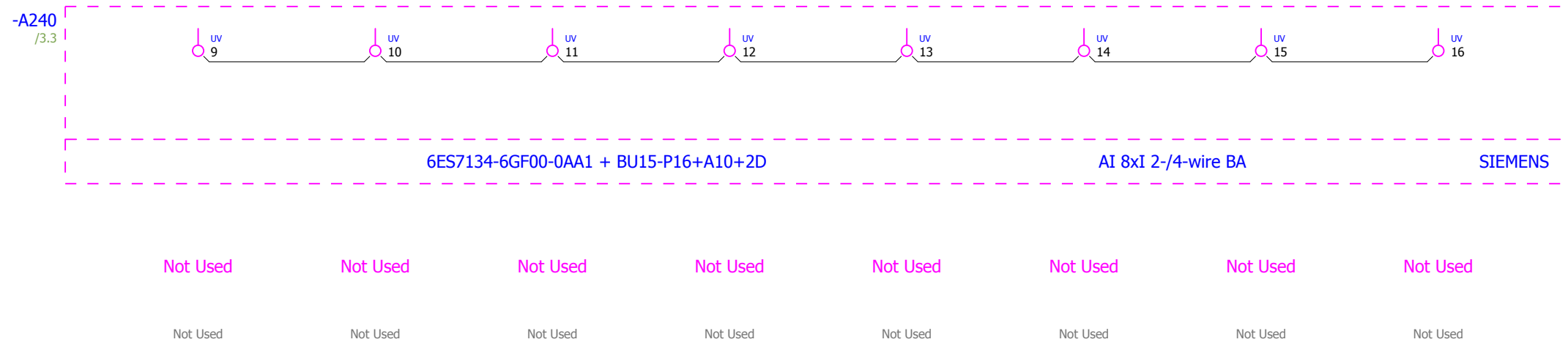
DRAWN BY	Date	DRAWING TITLE	DRAWING NUMBER (Doc)			
		Project template ESS	ESS-xxxxxxxx			
CHECKED BY	Date	PAGE DESCRIPTION	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
		PLC Analog input	Preliminary	A3	1	0.1
APPROVED BY	Date	FUNCTION	SHEET			
	DESIGN SITE	Digital inputs	=ESS.ACC.DTL+SIM&FS/35			
	ESS	Switches for control of pump 1-3	NEXT			
			36			



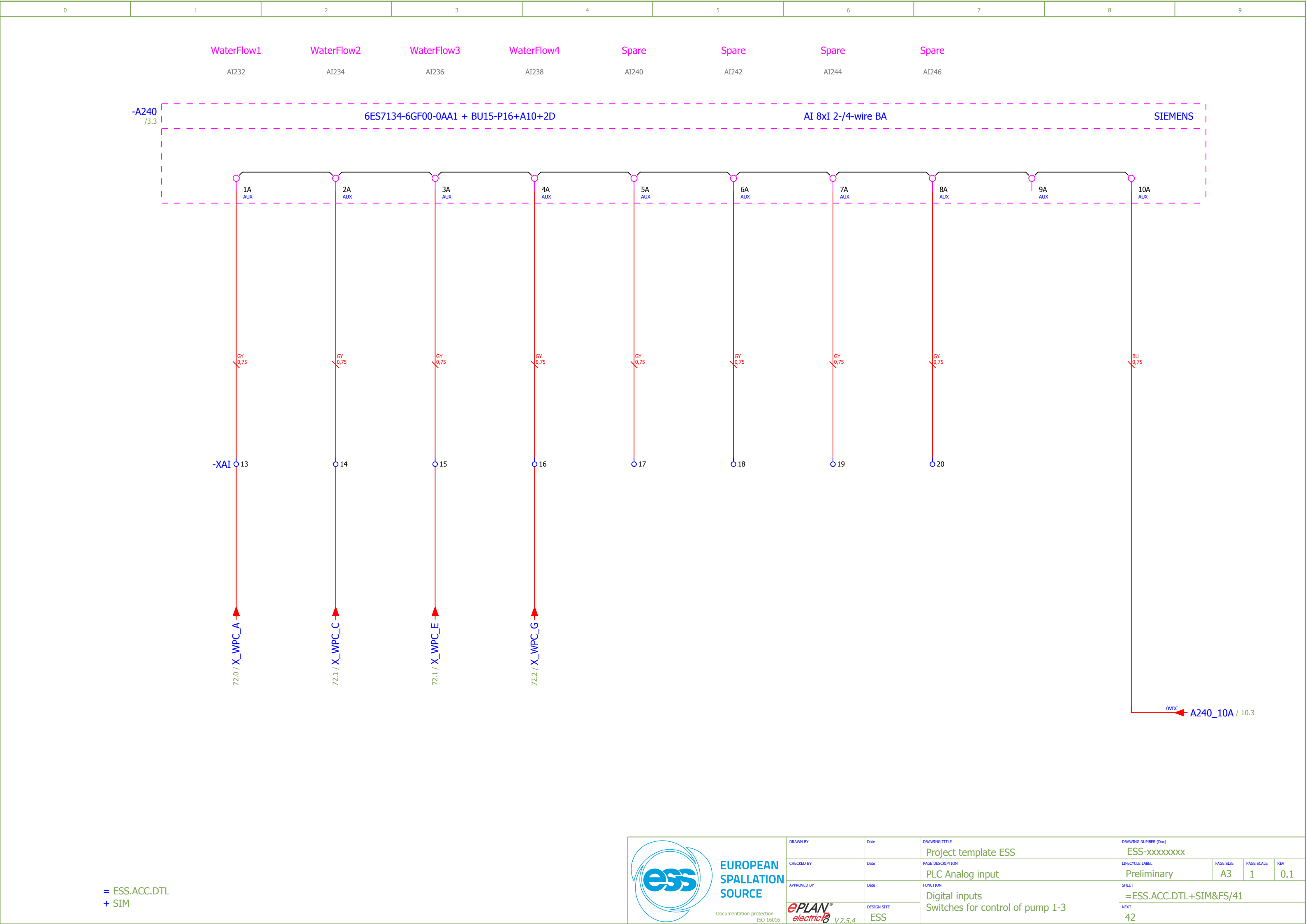
= ESS.ACC.DTL
+ SIM

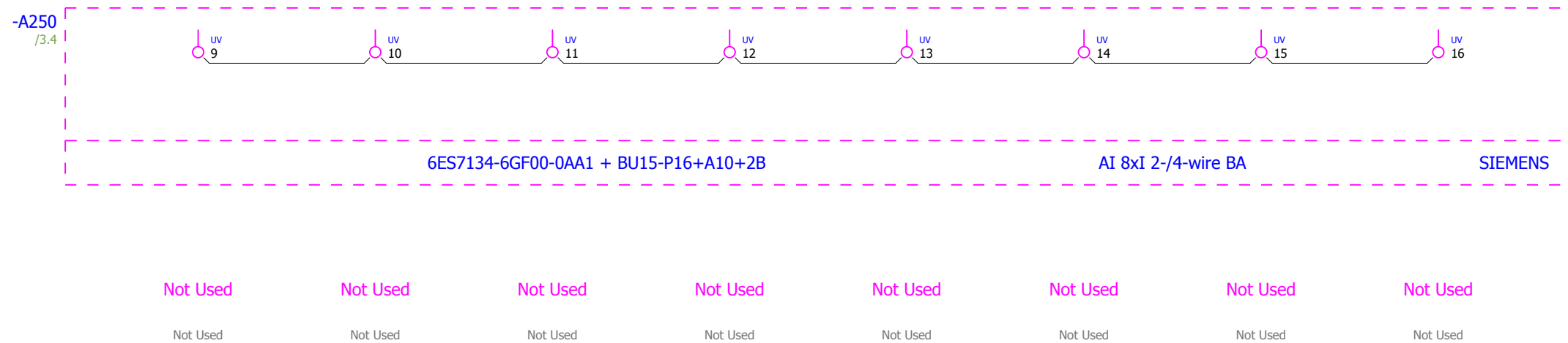
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	APPROVED BY	Date	FUNCTION	Preliminary	A3	1	0.1
		DESIGN SITE	Digital inputs Switches for control of pump 1-3	SHEET	=ESS.ACC.DTL+SIM&FS/36		
	ESS			NEXT	37		





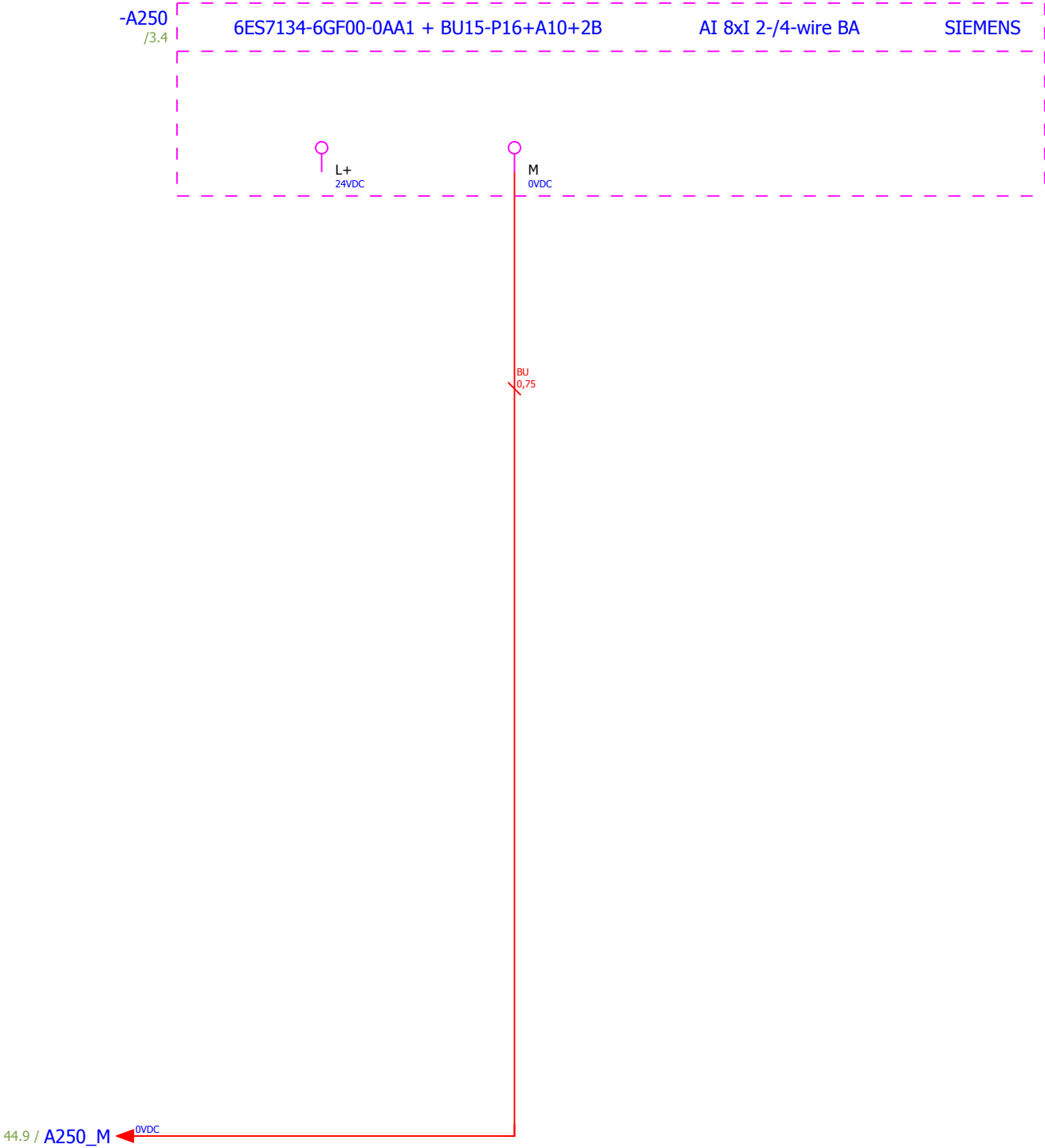
= ESS.ACC.DTL
+ SIM



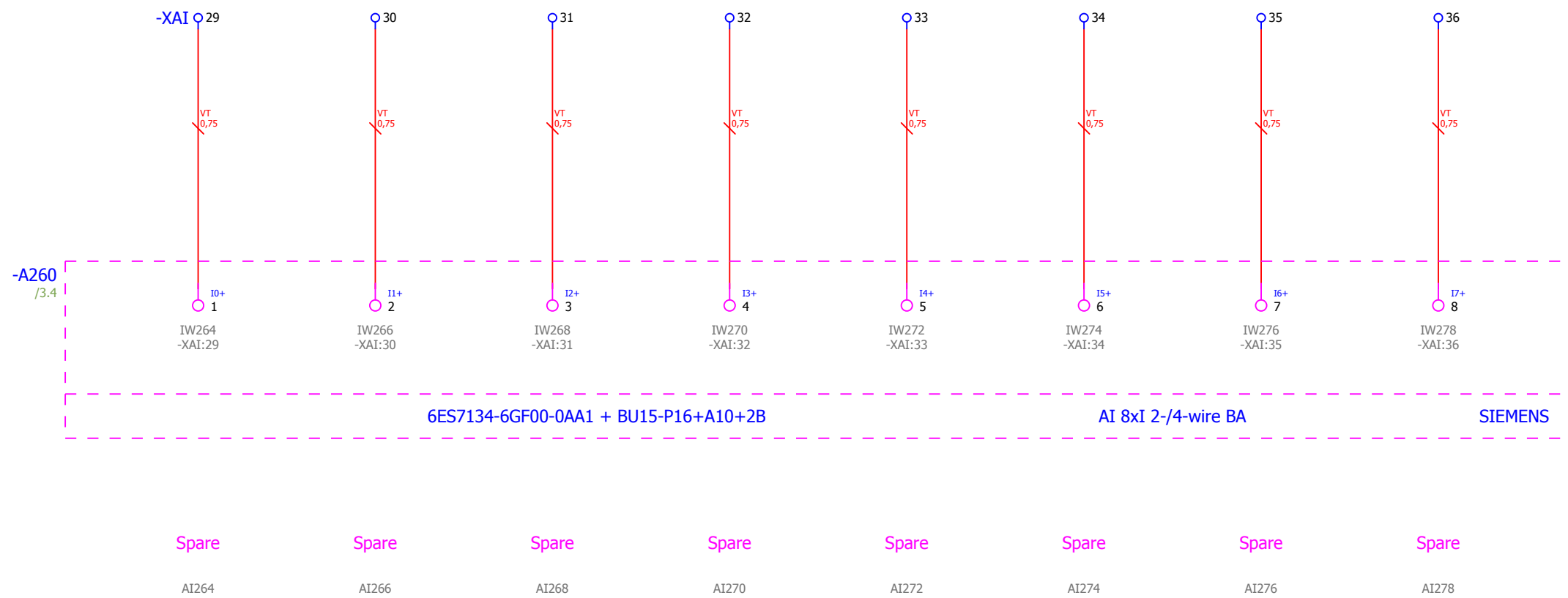


= ESS.ACC.DTL
+ SIM

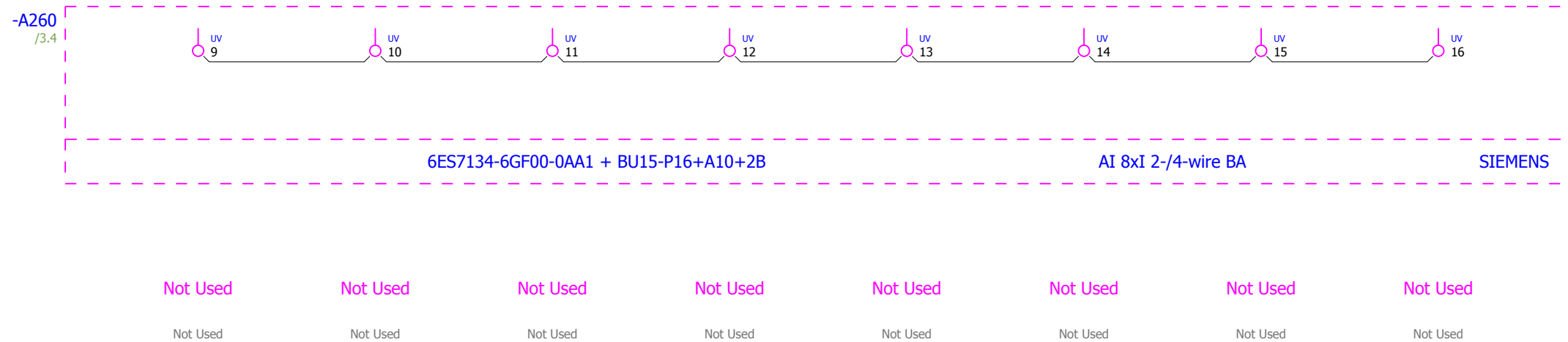




= ESS.ACC.DTL
+ SIM



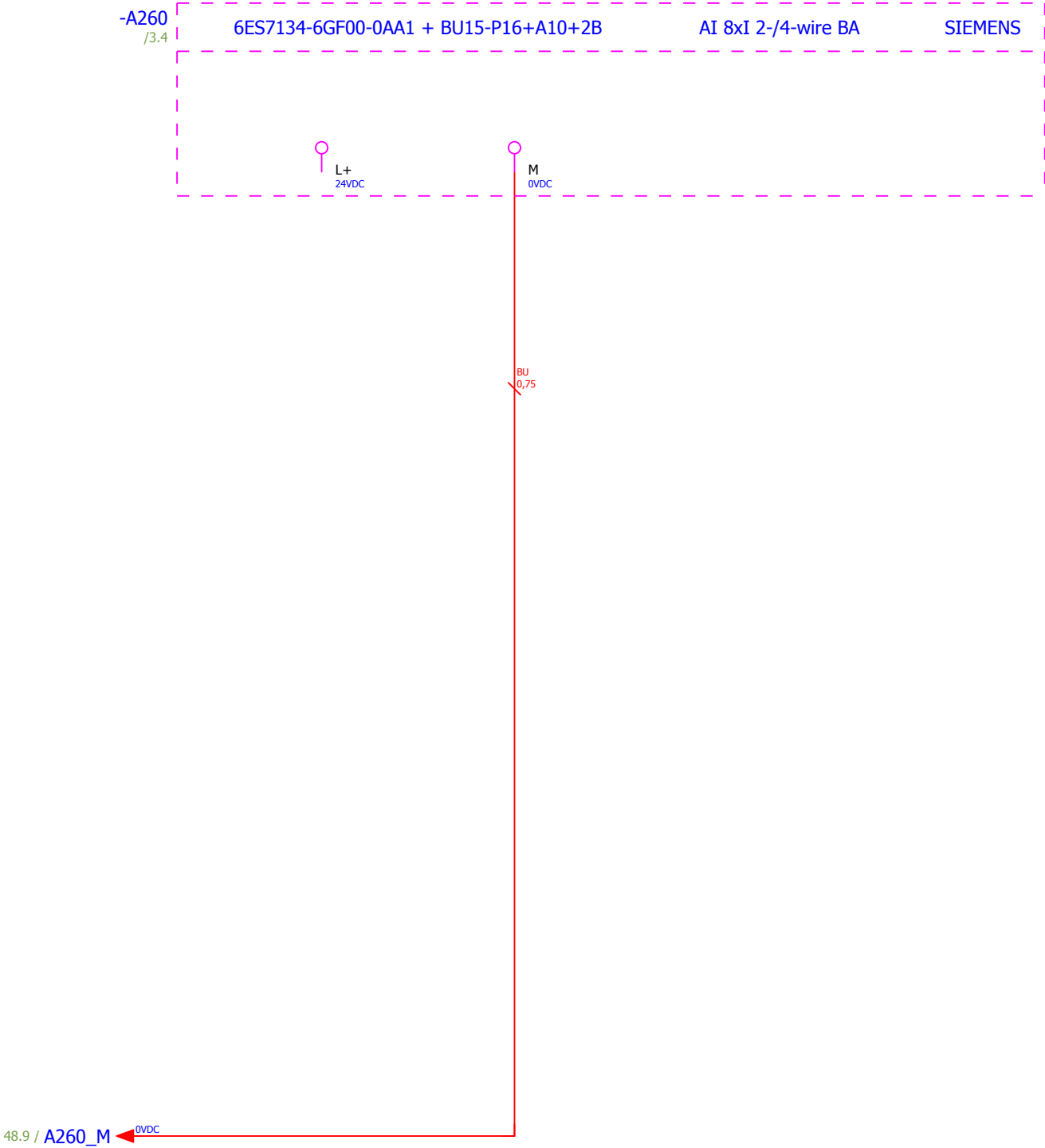
= ESS.ACC.DTL
+ SIM



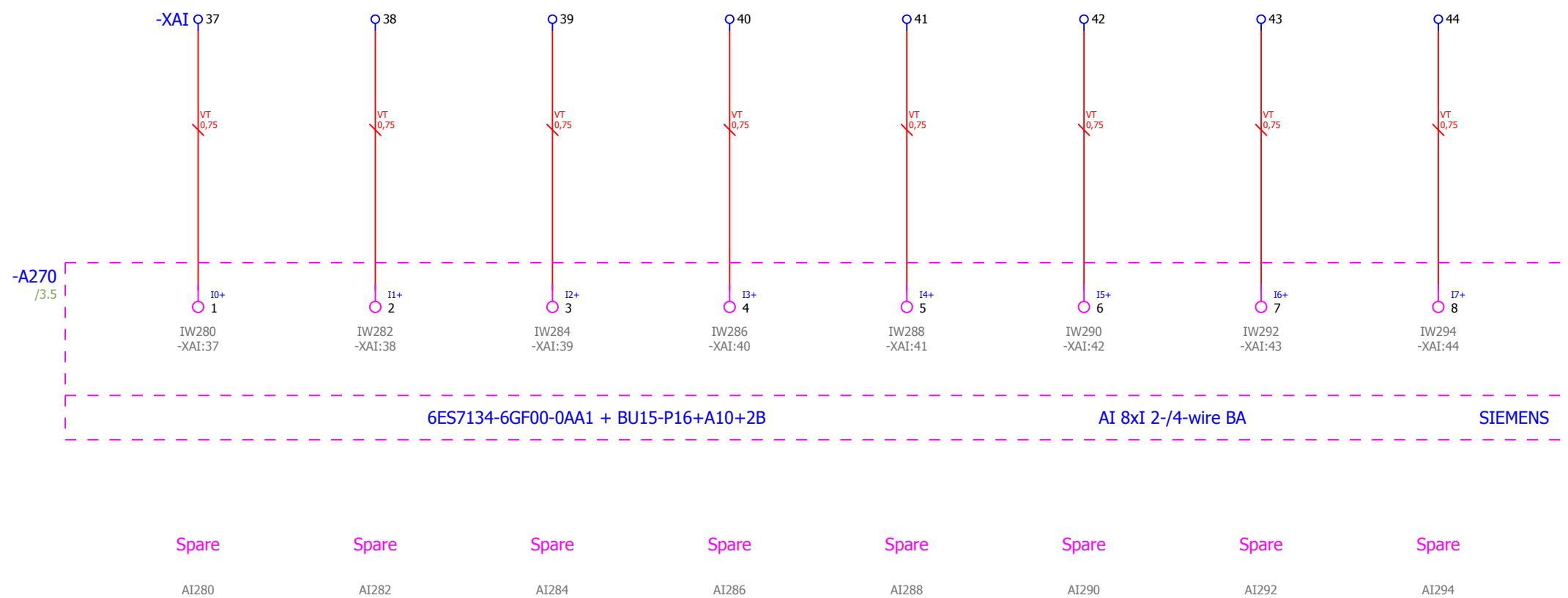
= ESS.ACC.DTL
+ SIM



= ESS.ACC.DTL
+ SIM



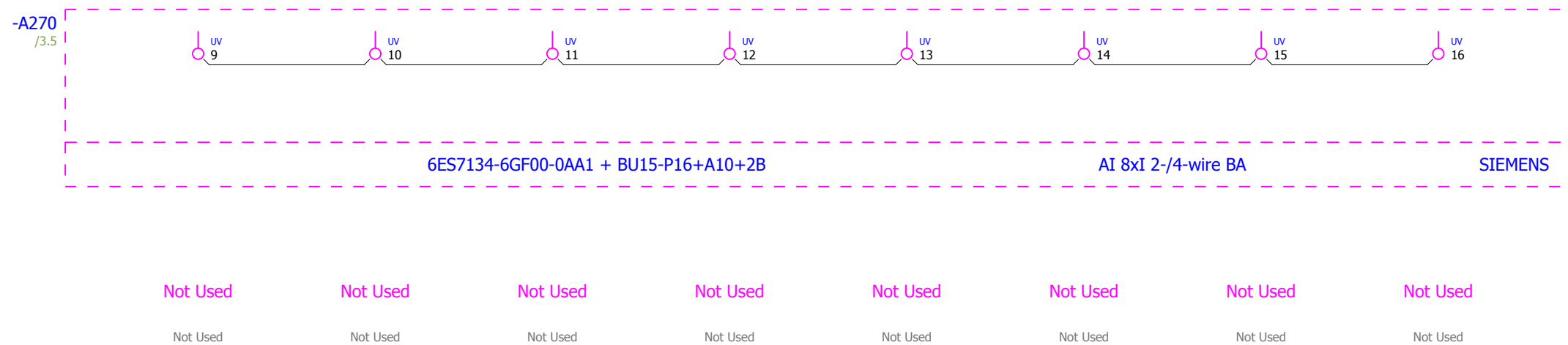
= ESS.ACC.DTL
+ SIM



= ESS.ACC.DTL
+ SIM



DRAWN BY	Date	DRAWING TITLE	DRAWING NUMBER (Doc)			
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CHECKED BY	Date	PAGE DESCRIPTION	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
		PLC Analog input	Preliminary	A3	1	0.1
APPROVED BY	Date	FUNCTION	SHEET			
		Digital inputs	=ESS.ACC.DTL+SIM&FS/50			
		Switches for control of pump 1-3	NEXT			
			51			

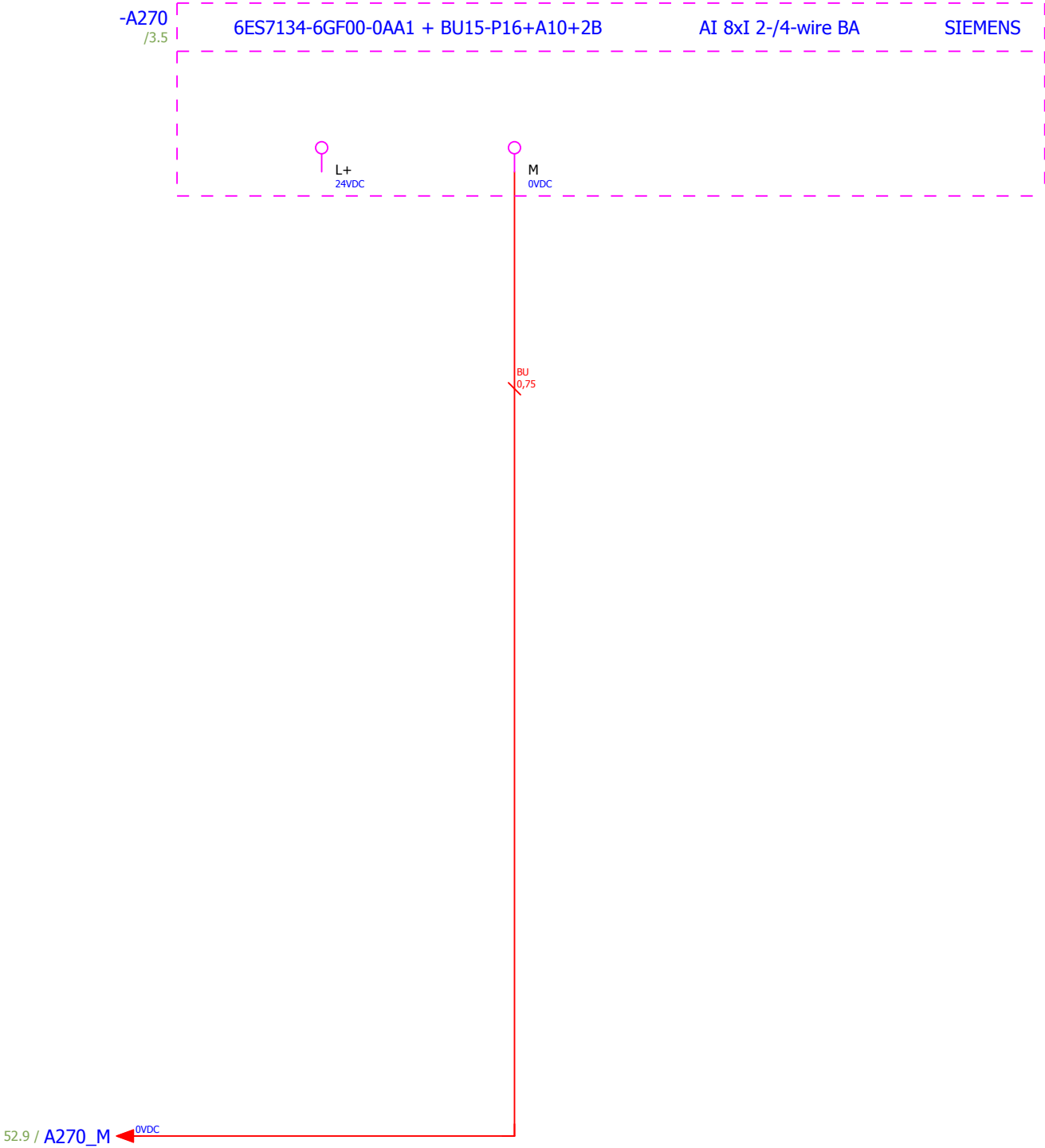


= ESS.ACC.DTL
+ SIM



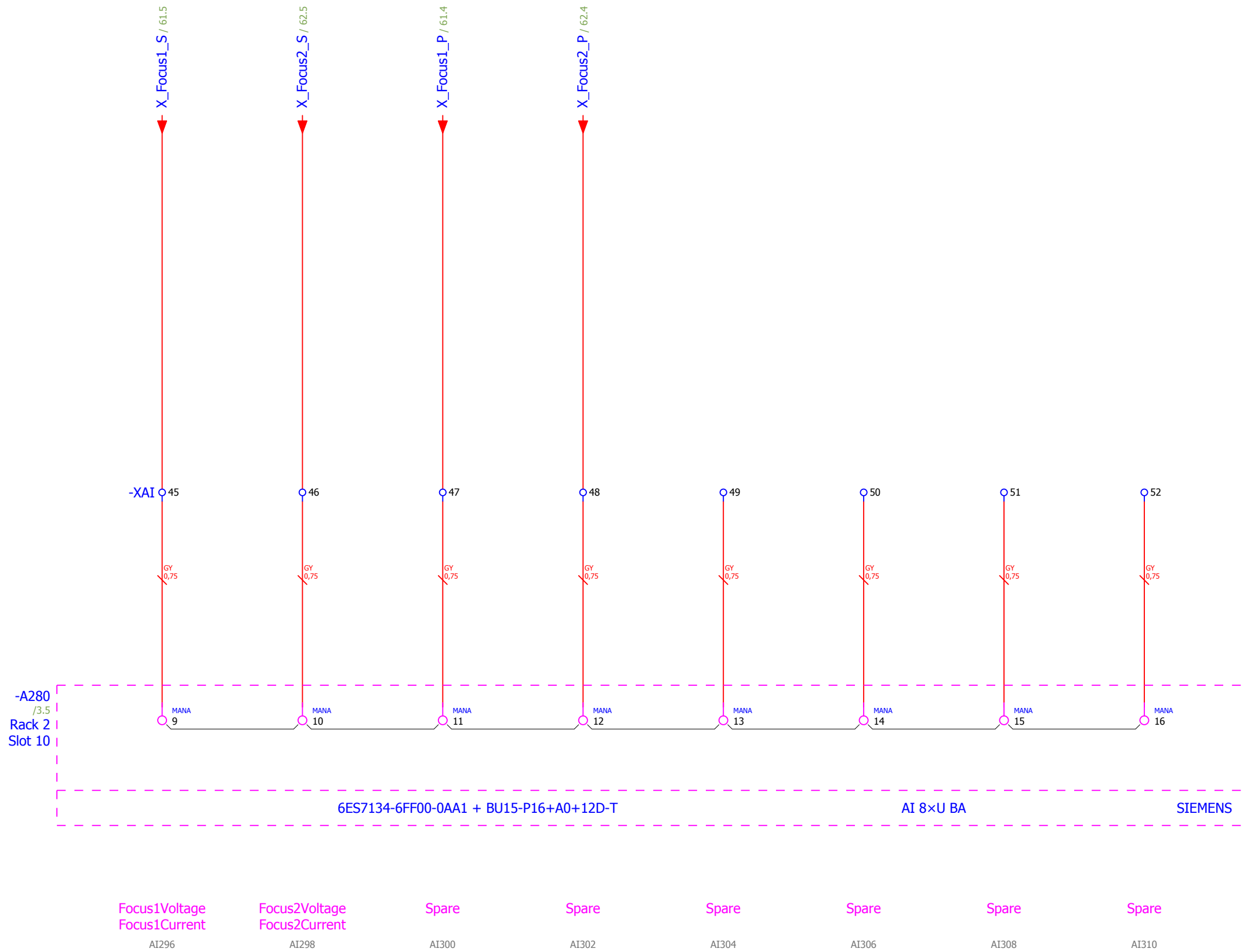
= ESS.ACC.DTL
+ SIM

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	CHECKED BY	Date	Project template ESS		ESS-xxxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	<div><div>ePLAN® electric8</div><div>V2.5.4</div></div>	DESIGN SITE	PLC Analog input		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital inputs Switches for control of pump 1-3		=ESS.ACC.DTL+SIM&FS/52			
					NEXT			
					53			

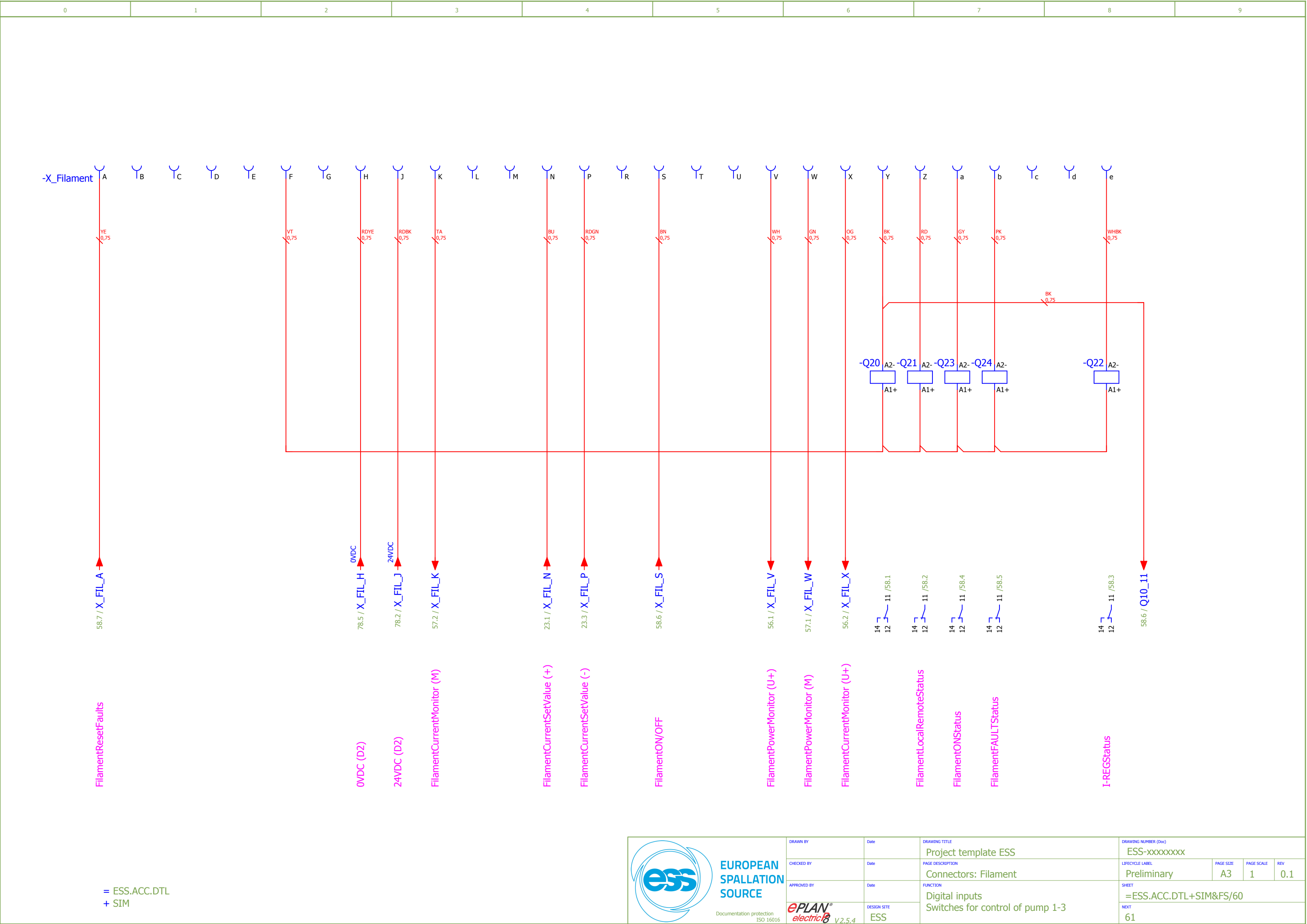




= ESS.ACC.DTL
+ SIM



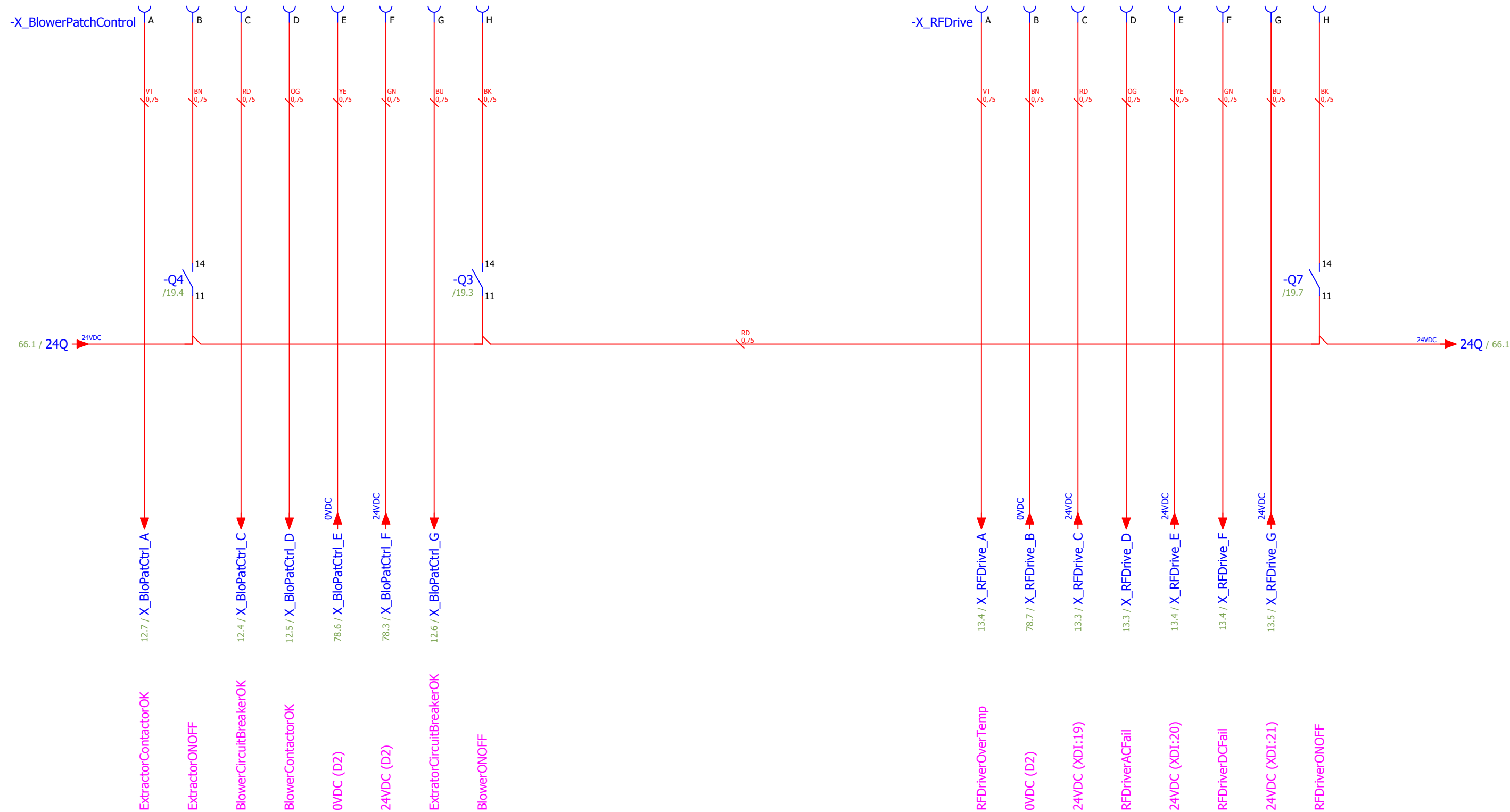


= ESS.ACC.DTL
+ SIM





 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	APPROVED BY	Date	FUNCTION		SHEET			
	 V2.5.4	DESIGN SITE			NEXT			
		ESS	Project template ESS		ESS-xxxxxxx	A3	1	0.1
			Connectors: Filament		Preliminary			
			Digital inputs Switches for control of pump 1-3		=ESS.ACC.DTL+SIM&FS/60			
					61			

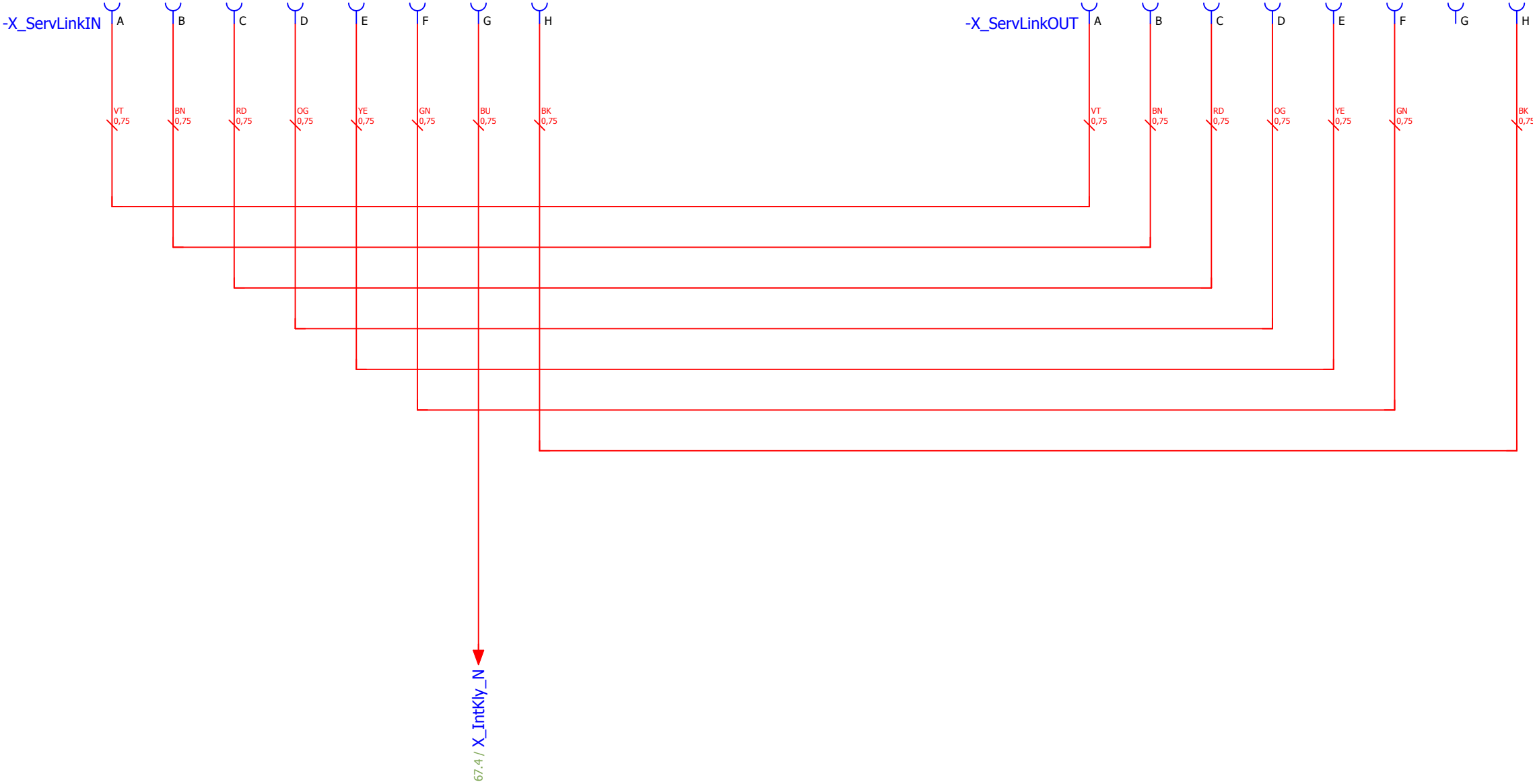




= ESS.ACC.DTL
+ SIM



 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	Connectors: BlowerPatchControl & RFDrive		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	Digital inputs Switches for control of pump 1-3		SHEET			
		ESS			NEXT			
					69			





-X_InterlockKlystron (N)

= ESS.ACC.DTL
+ SIM

 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	Connectors: ServLinkIN & ServLinkOUT		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital inputs		=ESS.ACC.DTL+SIM&FS/73			
			Switches for control of pump 1-3		NEXT			
			ESS		74			

-X_Spare4 Y_A Y_B Y_C Y_D Y_E Y_F Y_G Y_H Y_J Y_K Y_L Y_M Y_N Y_P Y_R Y_S Y_T Y_U Y_V Y_W Y_X Y_Y Y_Z Y_a Y_b Y_c Y_d Y_e

= ESS.ACC.DTL
+ SIM



DRAWN BY

Date

DRAWING TITLE

Project template ESS

CHECKED

Date

PAGE DESCRIPTION

Connectors: Spares

APPROVED

Date _____

FUNCTION

Digital inputs
Switches for control of pump 1-3

DRAWING NUMBER (Doc)

ESS-xxxxxxxx

PAGE SIZE

PAGE SCALING

REV

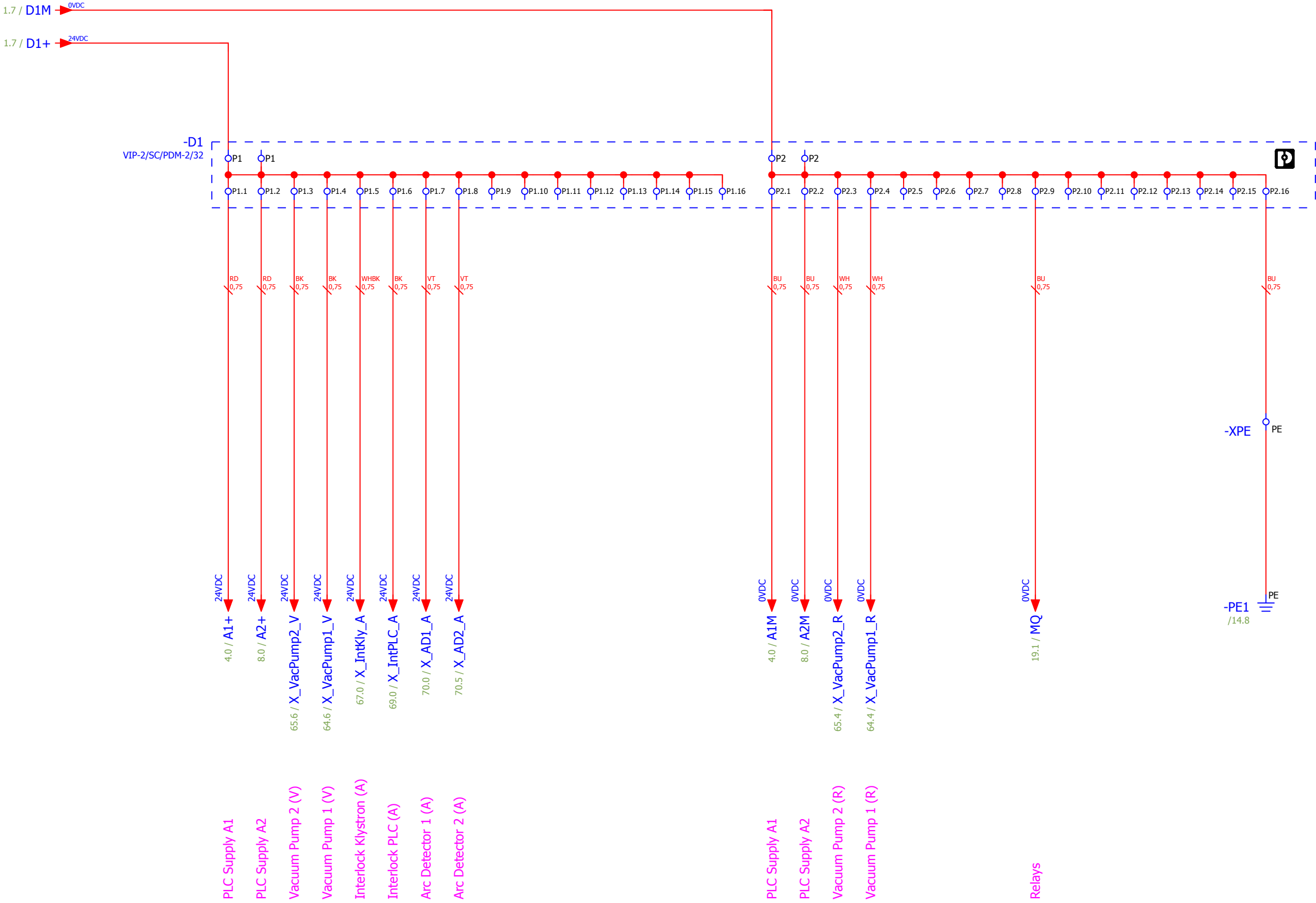
0.1

SHEET

=ESS.ACC.DTL+SIM&FS/76

NEXT

77



= ESS.ACC.DTL
+ SIM



EUROPEAN
SPALLATION
SOURCE

Documentation protection
ISO 16016

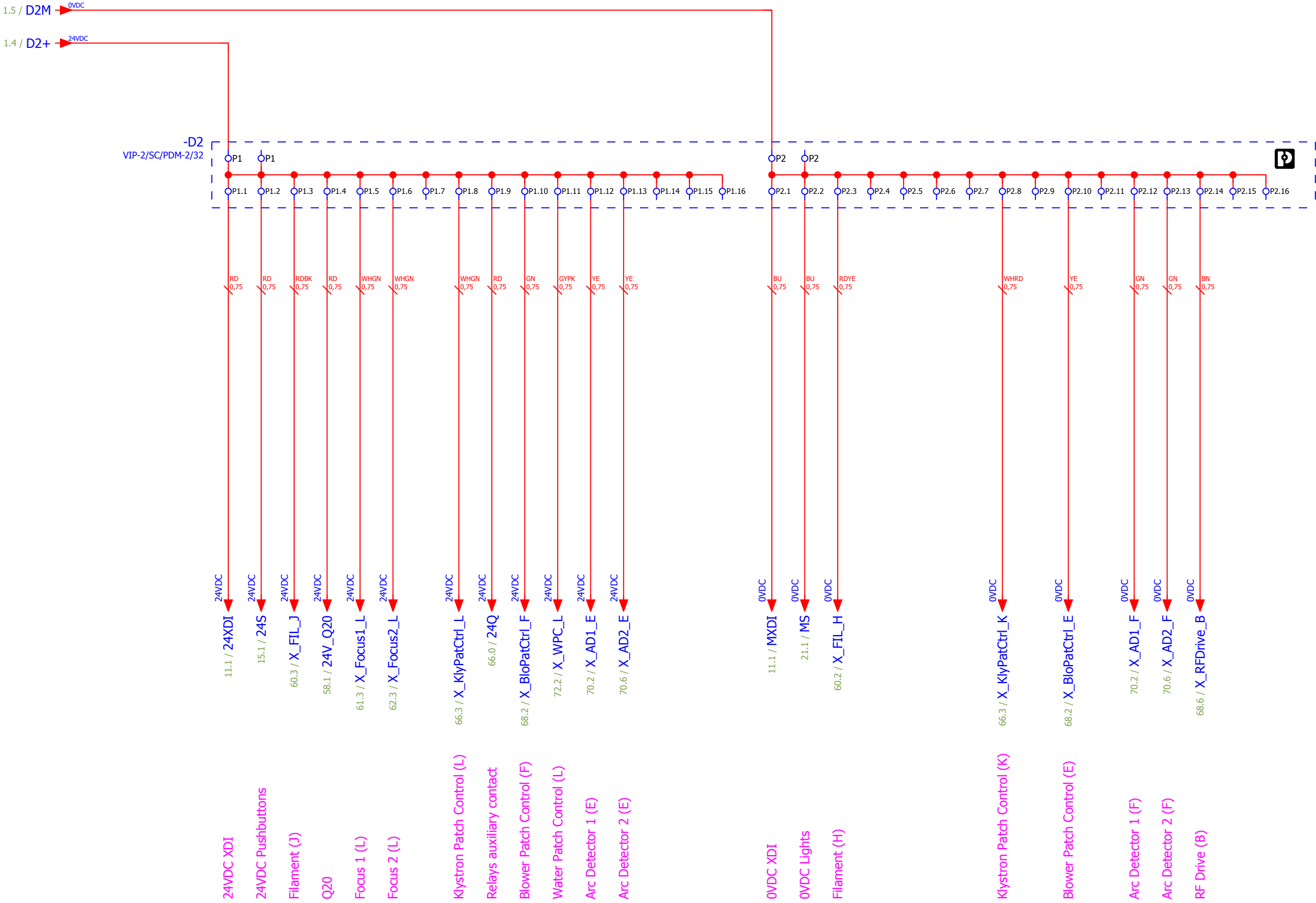
DRAWN BY	Date
CHECKED BY	Date
APPROVED BY	Date
ePLAN® electric8 V2.5.4	DESIGN SITE ESS

DRAWING TITLE
Project template ESS

PAGE DESCRIPTION
Potential distribution 1

FUNCTION
Power supply in cabinet

DRAWING NUMBER (Doc) ESS-xxxxxxx			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 0.1
SHEET =ESS.ACC.DTL+SIM&FS/77			
NEXT 78			

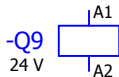
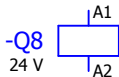
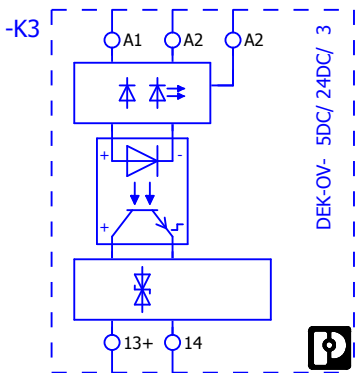


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ePLAN® electric 8 V2.5.4	DESIGN SITE			NEXT			
	ESS	Project template ESS			ESS-xxxxxxx		
		Potential distribution 2		Preliminary	A3	1	0.1
		Power supply in cabinet		=ESS.ACC.DTL+SIM&FS/78			
				79			

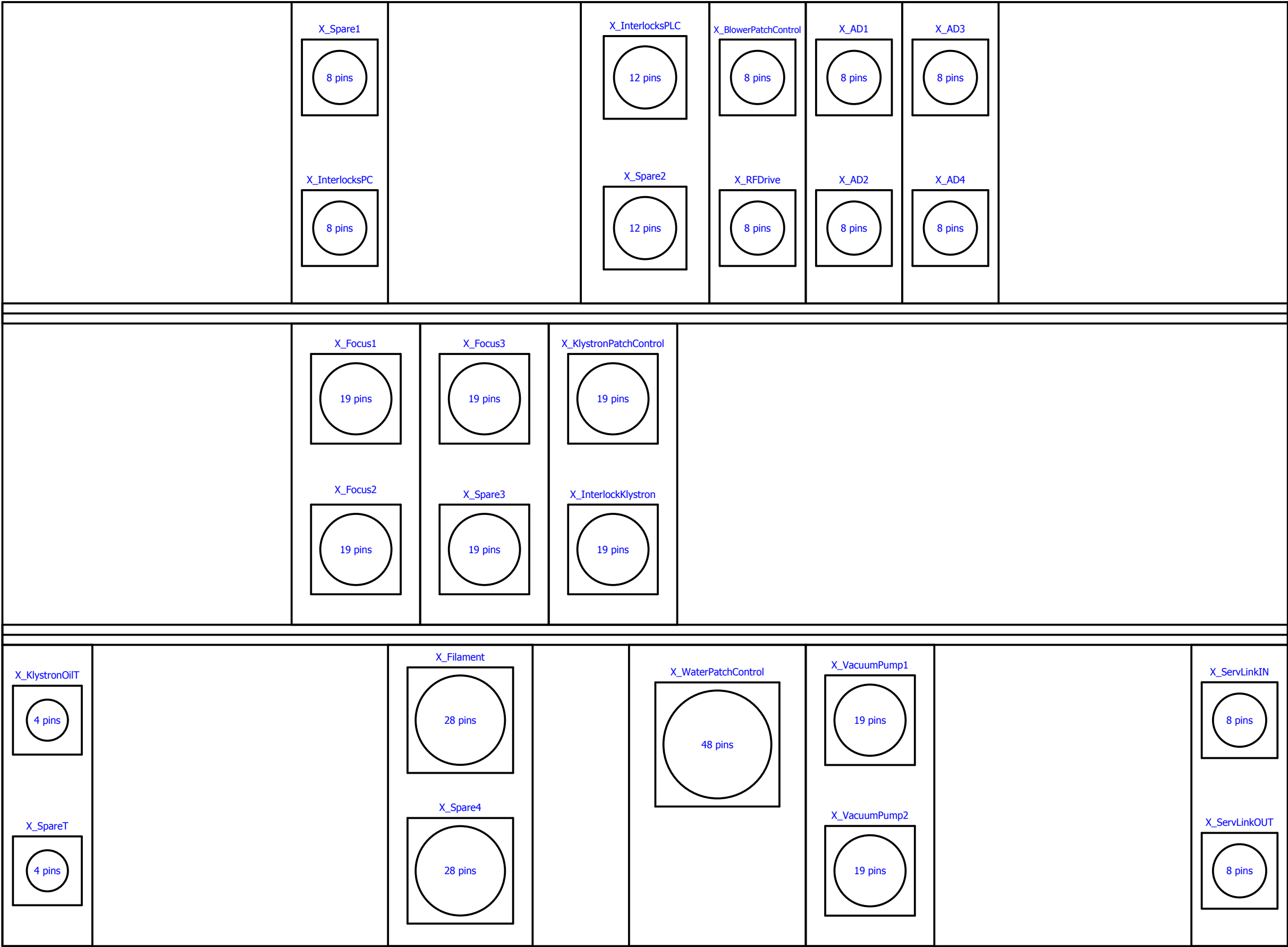
Spare Parts



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	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	Spare parts		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
			Digital inputs		=ESS.ACC.DTL+SIM&FS/79			
			Switches for control of pump 1-3		NEXT			
			ESS		80			

CONNECTORS LAYOUT



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Date
Date
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ESS

DRAWING TITLE
Project template ESS
PAGE DESCRIPTION
Connectors Layout
FUNCTION
PLC Overview

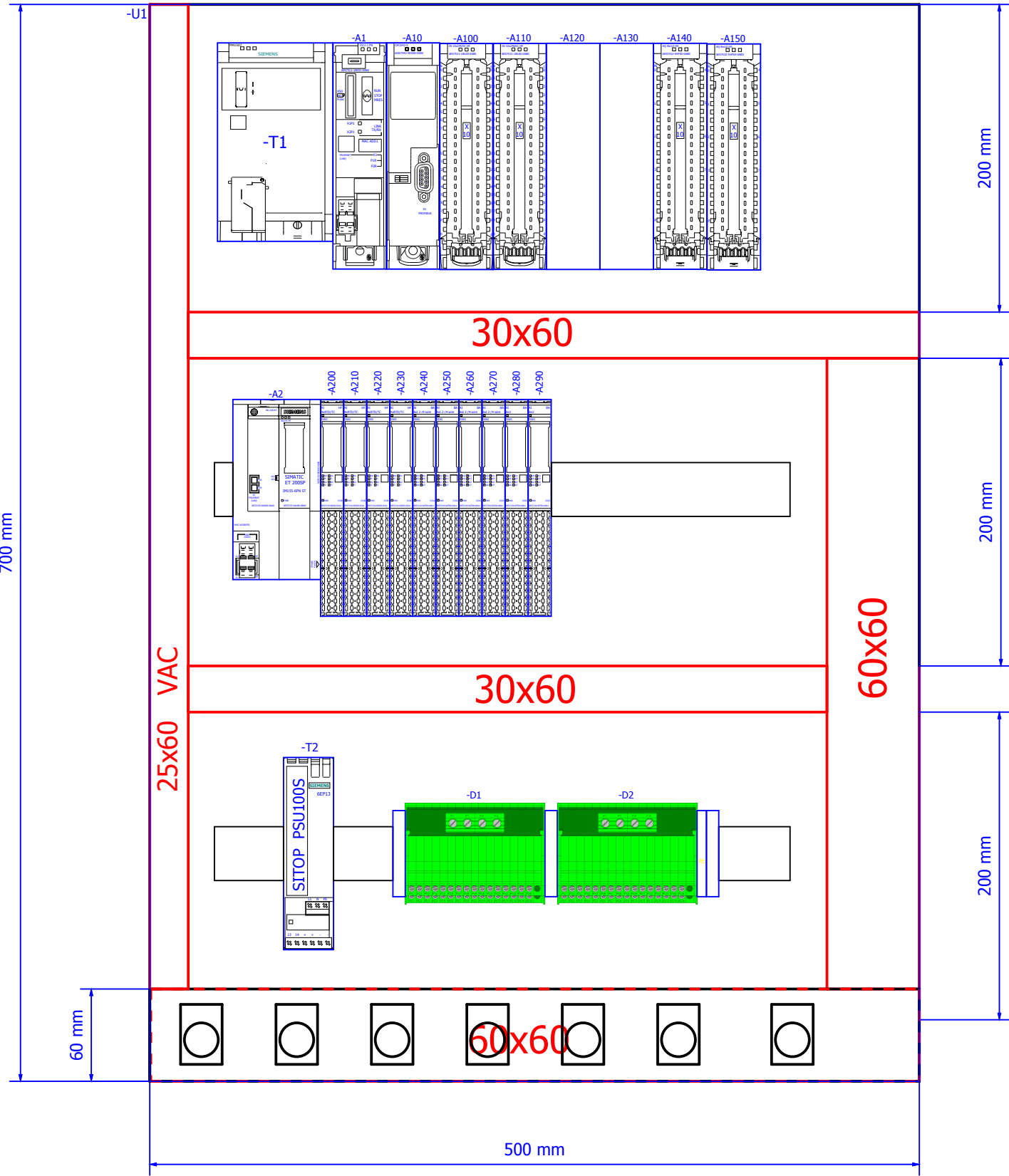
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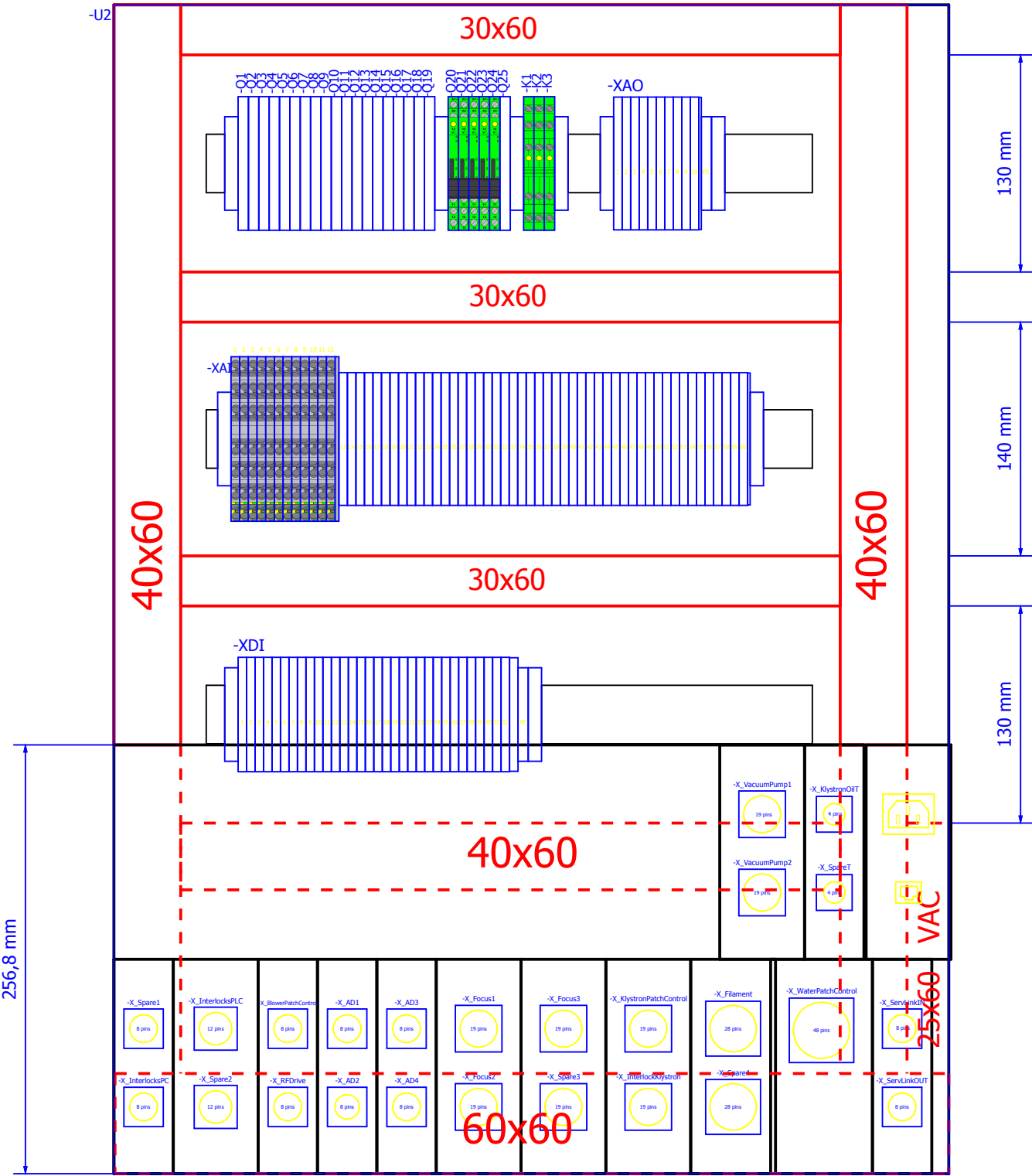
SHEET
=ESS.ACC.DTL+SIM&FS/80

NEXT
81

FRONT




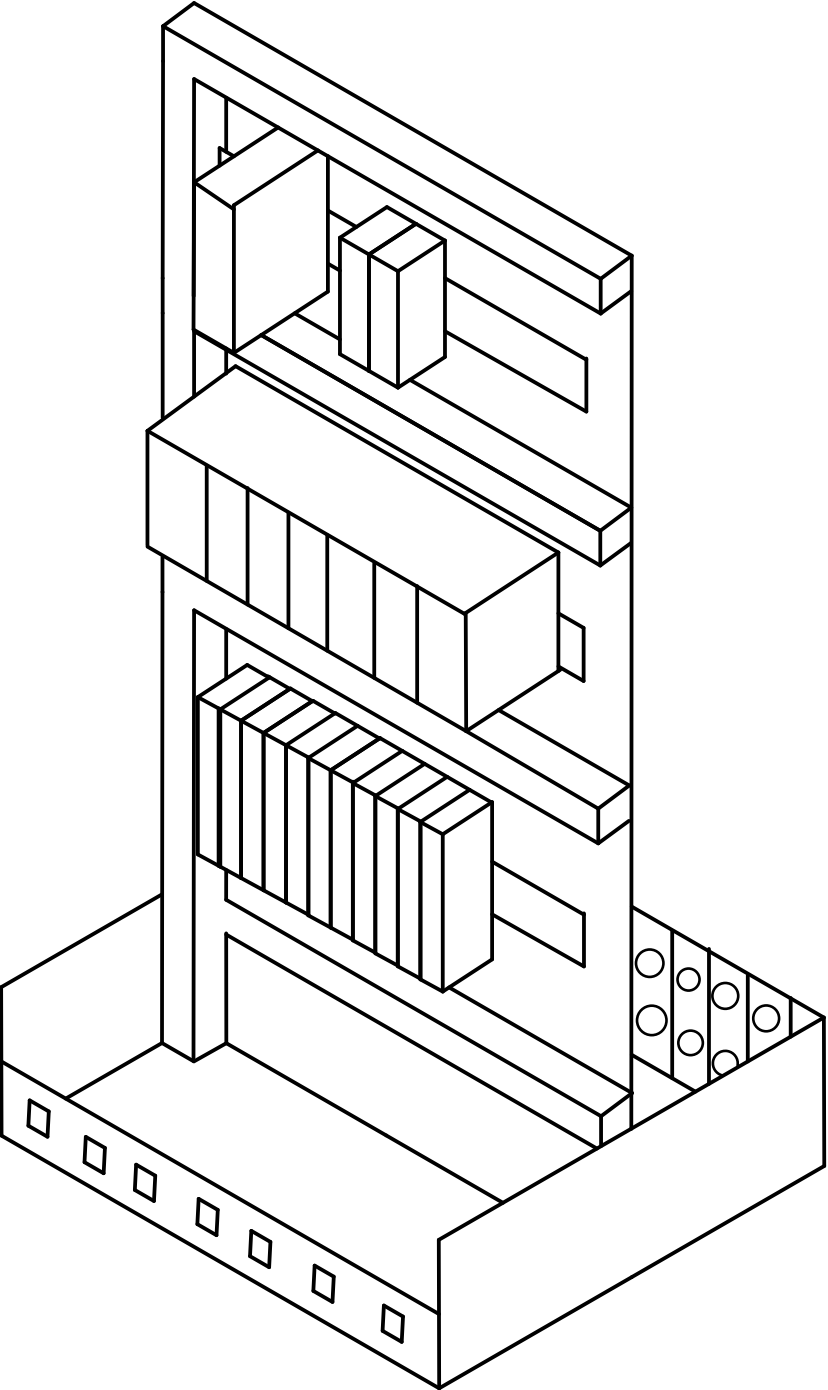
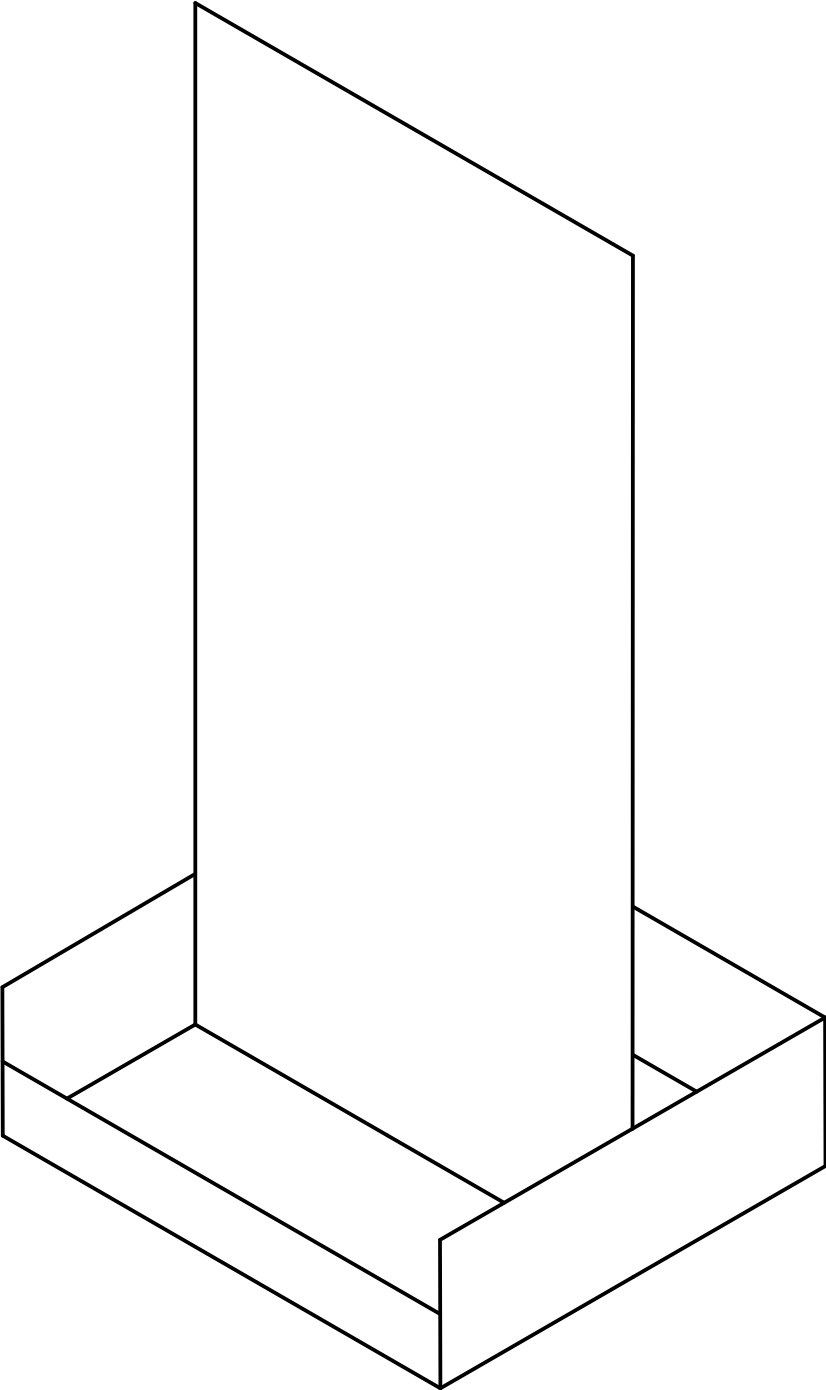
REAR





Mounting Panel:
RITTAL TS 8614.680

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	CHECKED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE
	APPROVED BY	Date	FUNCTION		SHEET		REV
			PLC Overview		=ESS.ACC.DTL+SIM&FS/81		
			DESIGN SITE		NEXT		
			ESS		82		



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	CHECKED BY	Date	Project template ESS		ESS-xxxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 <div>V2.5.4</div>	DESIGN SITE	Box Layout - Drawing		Preliminary	A3	3,7	0.1
		ESS	FUNCTION		SHEET			
		PLC Overview		=ESS.ACC.DTL+SIM&FS/82				
				NEXT				
				&MA/1				

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-D1 Potentialverteiler					Cable name					Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point					
PLC Supply A1												P1	●	-T1	-X81:1					&FS/77.1
PLC Supply A2												P1	●							&FS/77.1
PLC Supply A1												P1.1	●	-A1	-X80:1					&FS/77.1
PLC Supply A2												P1.2	●	-A2	-X80:1					&FS/77.1
Vacuum Pump 2 (V)												P1.3	●	-X_VacuumPump2	V					&FS/77.2
Vacuum Pump 1 (V)												P1.4	●	-X_VacuumPump1	V					&FS/77.2
Interlock Klystron (A)												P1.5	●	-X_InterlockKlystron	A					&FS/77.2
Interlock PLC (A)												P1.6	●	-X_InterlocksPLC	A					&FS/77.2
Arc Detector 1 (A)												P1.7	●	-X_AD1	A					&FS/77.2
Arc Detector 2 (A)												P1.8	●	-X_AD2	A					&FS/77.2
=												P1.9	●							&FS/77.3
=												P1.10	●							&FS/77.3
=												P1.11	●							&FS/77.3
=												P1.12	●							&FS/77.3
PLC Supply A1												P2	●	-T1	-X81:2					&FS/77.4
PLC Supply A2												P2	●							&FS/77.4
PLC Supply A1												P2.1	●	-A1	-X80:2					&FS/77.4
PLC Supply A2												P2.2	●	-A2	-X80:2					&FS/77.4
Vacuum Pump 2 (R)												P2.3	●	-X_VacuumPump2	R					&FS/77.5
Vacuum Pump 1 (R)												P2.4	●	-X_VacuumPump1	R					&FS/77.5
=												P2.5	●							&FS/77.5
=												P2.6	●							&FS/77.5
=												P2.7	●							&FS/77.5
=												P2.8	●							&FS/77.6
Relays												P2.9	●	-Q1	A2					&FS/77.6
=												P2.10	●							&FS/77.6
=												P2.11	●							&FS/77.6
=												P2.12	●							&FS/77.6
Arc Detector 2 (A)												P1.13	●							&FS/77.3
=												P1.14	●							&FS/77.4
=												P1.15	●							&FS/77.4
=												P1.16	●							&FS/77.4
Relays												P2.13	●							&FS/77.7
=												P2.14	●							&FS/77.7

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 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE	DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	APPROVED BY	Date	Terminal diagram	Preliminary	A3	1	0.1
	 V2.5.4	DESIGN SITE	FUNCTION	SHEET			
		ESS		=ESS.ACC.DTL+SIM&MA/1			
				NEXT			
				1.1			

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-D1 Potentialverteiler						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
Relays												P2.15	●									&FS/77.7
=												P2.16	●	-XPE	PE:1							&FS/77.7



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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-D2 Potentialverteiler					Cable name					Page / column
										Target designation	Connection point	Terminal	Junper	Target designation	Connection point					
24VDC XDI												P1	●	-T2	+1					&FS/78.1
24VDC Pushbuttons												P1	●							&FS/78.1
24VDC XDI												P1.1	●	-XDI	1:1					&FS/78.1
24VDC Pushbuttons												P1.2	●	-S1	13					&FS/78.1
Filament (J)												P1.3	●	-X_Filament	J					&FS/78.2
Q20												P1.4	●	-Q20	11					&FS/78.2
Focus 1 (L)												P1.5	●	-X_Focus1	L					&FS/78.2
Focus 2 (L)												P1.6	●	-X_Focus2	L					&FS/78.2
=												P1.7	●							&FS/78.2
Klystron Patch Control (L)												P1.8	●	-X_KlystronPatchControl	L					&FS/78.2
Relays auxiliary contact												P1.9	●	-Q1	11					&FS/78.3
Blower Patch Control (F)												P1.10	●	-X_BlowerPatchControl	F					&FS/78.3
Water Patch Control (L)												P1.11	●	-X_WaterPatchControl	L					&FS/78.3
Arc Detector 1 (E)												P1.12	●	-X_AD1	E					&FS/78.3
0VDC XDI												P2	●	-T2	-1					&FS/78.4
0VDC Lights												P2	●							&FS/78.4
0VDC XDI												P2.1	●	-XDI	1:1					&FS/78.4
0VDC Lights												P2.2	●	-S1	X2					&FS/78.4
Filament (H)												P2.3	●	-X_Filament	H					&FS/78.5
=												P2.4	●							&FS/78.5
=												P2.5	●							&FS/78.5
=												P2.6	●							&FS/78.5
=												P2.7	●							&FS/78.5
Klystron Patch Control (K)												P2.8	●	-X_KlystronPatchControl	K					&FS/78.6
=												P2.9	●							&FS/78.6
Blower Patch Control (E)												P2.10	●	-X_BlowerPatchControl	E					&FS/78.6
=												P2.11	●							&FS/78.6
Arc Detector 1 (F)												P2.12	●	-X_AD1	F					&FS/78.6
Arc Detector 2 (E)												P1.13	●	-X_AD2	E					&FS/78.3
=												P1.14	●							&FS/78.4
=												P1.15	●							&FS/78.4
=												P1.16	●							&FS/78.4
Arc Detector 2 (F)												P2.13	●	-X_AD2	F					&FS/78.7
RF Drive (B)												P2.14	●	-X_RFDrive	B					&FS/78.7

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	APPROVED BY	Date	Terminal diagram	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 V2.5.4	DESIGN SITE	ESS	PRELIMINARY	A3	1	0.1
			FUNCTION	SHEET			
				=ESS.ACC.DTL+SIM&MA/2			
				NEXT			
				2.1			

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-D2 Potentialverteiler						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
RF Drive (B)												P2.15	●									&FS/78.7
=												P2.16	●									&FS/78.7

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+ SIM

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XAI						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
Spare												PE										&FS/57.7
KlystronOilT										-X_KlystronOilT	A	1		-A200	1							&FS/31.1
=										-X_KlystronOilT	B	1		-A200	5							&FS/31.4
=										-X_KlystronOilT	C	1		-A200	9							&FS/32.1
PLCTemp										-X_SpareT	A	2		-A200	2							&FS/31.2
=										-X_SpareT	B	2		-A200	6							&FS/31.5
=										-X_SpareT	C	2		-A200	10							&FS/32.2
Spare												3		-A200	3							&FS/31.3
=												3		-A200	7							&FS/31.5
=												3		-A200	11							&FS/32.3
Spare												4		-A200	4							&FS/31.3
=												4		-A200	8							&FS/31.6
=												4		-A200	12							&FS/32.3
KlystronGarageT										-X_KlystronPatchControl	V	5		-A210	1							&FS/33.1
=										-X_KlystronPatchControl	P	5		-A210	5							&FS/33.4
=										-X_KlystronPatchControl	R	5		-A210	9							&FS/34.1
KlystronWindowAirT										-X_KlystronPatchControl	T	6		-A210	2							&FS/33.2
=										-X_KlystronPatchControl	U	6		-A210	6							&FS/33.5
=										-X_KlystronPatchControl	N	6		-A210	10							&FS/34.2
Spare												7		-A210	3							&FS/33.3
=												7		-A210	7							&FS/33.5
=												7		-A210	11							&FS/34.3
Spare												8		-A210	4							&FS/33.3
=												8		-A210	8							&FS/33.6
=												8		-A210	12							&FS/34.3
Spare												9		-A220	1							&FS/35.1



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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XAI					Cable name					Page / column
									Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type				
Spare												9		-A220	5					&FS/35.4
=												9		-A220	9					&FS/36.1
Spare												10		-A220	2					&FS/35.2
=												10		-A220	6					&FS/35.5
=												10		-A220	10					&FS/36.2
Spare												11		-A220	3					&FS/35.3
=												11		-A220	7					&FS/35.5
=												11		-A220	11					&FS/36.3
Spare												12		-A220	4					&FS/35.3
=												12		-A220	8					&FS/35.6
=												12		-A220	12					&FS/36.3
WaterFlow1										-X_WaterPatchControl	U	13		-A240	1					&FS/39.1
=										-X_WaterPatchControl	A	13		-A240	1A					&FS/41.1
WaterFlow2										-X_WaterPatchControl	B	14		-A240	2					&FS/39.2
=										-X_WaterPatchControl	C	14		-A240	2A					&FS/41.2
WaterFlow3										-X_WaterPatchControl	D	15		-A240	3					&FS/39.3
=										-X_WaterPatchControl	E	15		-A240	3A					&FS/41.3
WaterFlow4										-X_WaterPatchControl	F	16		-A240	4					&FS/39.4
=										-X_WaterPatchControl	G	16		-A240	4A					&FS/41.4
Spare												17		-A240	5					&FS/39.4
=												17		-A240	5A					&FS/41.4
=												18		-A240	6					&FS/39.5
=												18		-A240	6A					&FS/41.5
=												19		-A240	7					&FS/39.6
=												19		-A240	7A					&FS/41.6
=												20		-A240	8					&FS/39.7
=												20		-A240	8A					&FS/41.7
WaterTIN										-X_WaterPatchControl	x	21		-A250	1					&FS/42.1
=										-X_WaterPatchControl	y	21		-A250	1A					&FS/44.1
WaterTOUT1										-X_WaterPatchControl	w	22		-A250	2					&FS/42.2

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	APPROVED BY	Date	FUNCTION	SHEET				
	 <div>V2.5.4</div>	DESIGN SITE		NEXT				
	ESS							

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XAI						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
WaterTOUT1										-X_WaterPatchControl	m	22		-A250	2A							&FS/44.2
WaterTOUT2										-X_WaterPatchControl	q	23		-A250	3							&FS/42.3
=										-X_WaterPatchControl	r	23		-A250	3A							&FS/44.3
WaterTOUT3										-X_WaterPatchControl	u	24		-A250	4							&FS/42.4
=										-X_WaterPatchControl	v	24		-A250	4A							&FS/44.4
WaterTOUT4										-X_WaterPatchControl	V	25		-A250	5							&FS/42.4
=										-X_WaterPatchControl	W	25		-A250	5A							&FS/44.4
Spare												26		-A250	6							&FS/42.5
=												26		-A250	6A							&FS/44.5
=												27		-A250	7							&FS/42.6
=												27		-A250	7A							&FS/44.6
=												28		-A250	8							&FS/42.7
=												28		-A250	8A							&FS/44.7
=												29		-A260	1							&FS/46.1
=												29		-A260	1A							&FS/48.1
=												30		-A260	2							&FS/46.2
=												30		-A260	2A							&FS/48.2
=												31		-A260	3							&FS/46.3
=												31		-A260	3A							&FS/48.3
=												32		-A260	4							&FS/46.4
=												32		-A260	4A							&FS/48.4
=												33		-A260	5							&FS/46.4
=												33		-A260	5A							&FS/48.4
=												34		-A260	6							&FS/46.5
=												34		-A260	6A							&FS/48.5
=												35		-A260	7							&FS/46.6
=												35		-A260	7A							&FS/48.6
=												36		-A260	8							&FS/46.7
=												36		-A260	8A							&FS/48.7
=												37		-A270	1							&FS/50.1
=												37		-A270	1A							&FS/52.1
=												38		-A270	2							&FS/50.2
=												38		-A270	2A							&FS/52.2
=												39		-A270	3							&FS/50.3

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	CHECKED BY	Date	Project template ESS	ESS-xxxxxxxx			
	APPROVED BY	Date	Terminal diagram	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 <div>V2.5.4</div>	DESIGN SITE	FUNCTION	SHEET			
ESS			=ESS.ACC.DTL+SIM&MA/4.2				
					NEXT		
					4.3		

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XAI					Cable name					Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point					
Spare												39		-A270	3A					&FS/52.3
=												40		-A270	4					&FS/50.4
=												40		-A270	4A					&FS/52.4
=												41		-A270	5					&FS/50.4
=												41		-A270	5A					&FS/52.4
=												42		-A270	6					&FS/50.5
=												42		-A270	6A					&FS/52.5
=												43		-A270	7					&FS/50.6
=												43		-A270	7A					&FS/52.6
=												44		-A270	8					&FS/50.7
=												44		-A270	8A					&FS/52.7
Focus1Voltage										-X_Focus1	R	45		-A280	1					&FS/54.1
Focus1Voltage Focus1Current										-X_Focus1	S	45		-A280	9					&FS/55.1
Focus2Voltage										-X_Focus2	R	46		-A280	2					&FS/54.2
Focus2Voltage Focus2Current										-X_Focus2	S	46		-A280	10					&FS/55.2
Focus1Current										-X_Focus1	V	47		-A280	3					&FS/54.3
										-X_InterlockKlystron	J									
Spare										-X_Focus1	P	47		-A280	11					&FS/55.3
										-X_InterlockKlystron	K									
Focus2Current										-X_Focus2	V	48		-A280	4					&FS/54.4
										-X_InterlockKlystron	L									
Spare										-X_Focus2	P	48		-A280	12					&FS/55.4
										-X_InterlockKlystron	M									
KlyVac1Current										-X_VacuumPump1	E	49		-A280	5					&FS/54.4
Spare												49		-A280	13					&FS/55.4
KlyVac2Current										-X_VacuumPump2	E	50		-A280	6					&FS/54.5
Spare												50		-A280	14					&FS/55.5
=												51		-A280	7					&FS/54.6
=												51		-A280	15					&FS/55.6
=												52		-A280	8					&FS/54.7
=												52		-A280	16					&FS/55.7
FilamentPowerMonitor										-X_Filament	V	53		-A290	1					&FS/56.1
=										-X_Filament	W	53		-A290	9					&FS/57.1
FilamentCurrentMonitor										-X_Filament	X	54		-A290	2					&FS/56.2

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	APPROVED BY	Date	Terminal diagram		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 <div>V2.5.4</div>	DESIGN SITE	ESS		Preliminary	A3	1	0.1
			FUNCTION		SHEET			
					=ESS.ACC.DTL+SIM&MA/4.3			
					NEXT			
					4.4			

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XAI						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
FilamentCurrentMonitor										-X_Filament	K	54		-A290	10							&FS/57.2
Spare												55		-A290	3							&FS/56.3
=												55		-A290	11							&FS/57.3
=												56		-A290	4							&FS/56.4
=												56		-A290	12							&FS/57.4
=												57		-A290	5							&FS/56.4
=												57		-A290	13							&FS/57.4
=												58		-A290	6							&FS/56.5
=												58		-A290	14							&FS/57.5
=												59		-A290	7							&FS/56.6
=												59		-A290	15							&FS/57.6
=												60		-A290	8							&FS/56.7
=												60		-A290	16							&FS/57.7

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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XDI					Cable name					Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point					
5VPowerSupplyOK												1		-A100	-X10:1					&FS/11.1
24VDC BR										-D2	P1.1:P1.1	1								&FS/11.2
0VDC BU										-D2	P2.1:P2.1	1								&FS/11.2
12VPowerSupplyOK												2		-A100	-X10:2					&FS/11.2
24VDC BR												2								&FS/11.2
0VDC BU												2								&FS/11.3
24V-1PowerSupplyOK												3		-A100	-X10:3					&FS/11.3
24VDC BR												3								&FS/11.3
0VDC BU												3								&FS/11.3
24V-2PowerSupplyOK												4		-A100	-X10:4					&FS/11.4
24VDC BR												4								&FS/11.4
0VDC BU												4								&FS/11.4
24V-3PowerSupplyOK												5		-A100	-X10:5					&FS/11.4
24VDC BR												5								&FS/11.5
0VDC BU												5								&FS/11.5
Spare												6		-A100	-X10:6					&FS/11.5
24VDC BR												6								&FS/11.5
0VDC BU												6								&FS/11.6
Spare												7		-A100	-X10:7					&FS/11.6
24VDC BR												7								&FS/11.6


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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XDI					Cable name					Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point					
0VDC BU												7	<div></div>							&FS/11.6
Spare												8		-A100	-X10:8					&FS/11.7
24VDC BR												8	<div></div>							&FS/11.7
0VDC BU												8	<div></div>							&FS/11.7
GarageBeltShielding												9		-A100	-X10:11					&FS/12.1
24VDC BR												9	<div></div>							&FS/12.2
0VDC BU												9	<div></div>							&FS/12.2
KlystronAirFlow										-X_KlystronPatchControl	G	10		-A100	-X10:12					&FS/12.2
24VDC BR												10	<div></div>							&FS/12.2
0VDC BU												10	<div></div>							&FS/12.3
KlystronOilLevel										-X_KlystronPatchControl	H	11		-A100	-X10:13					&FS/12.3
24VDC BR												11	<div></div>							&FS/12.3
0VDC BU												11	<div></div>							&FS/12.3
KlystronOilTemp										-X_KlystronPatchControl	J	12		-A100	-X10:14					&FS/12.4
24VDC BR												12	<div></div>							&FS/12.4
0VDC BU												12	<div></div>							&FS/12.4
BlowerCircuitBreakerOK										-X_BlowerPatchControl	C	13		-A100	-X10:15					&FS/12.4
24VDC BR												13	<div></div>							&FS/12.5
0VDC BU												13	<div></div>							&FS/12.5
BlowerContactorOK										-X_BlowerPatchControl	D	14		-A100	-X10:16					&FS/12.5

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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XDI					Cable name					Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point					
24VDC BR												14	<div></div>							&FS/12.5
0VDC BU												14	<div></div>							&FS/12.6
ExtractorCircuitBreakerOK										-X_BlowerPatchControl	G	15	<div></div>	-A100	-X10:17					&FS/12.6
													<div></div>							
													<div></div>							
24VDC BR												15	<div></div>							&FS/12.6
0VDC BU												15	<div></div>							&FS/12.6
ExtractorContactorOK										-X_BlowerPatchControl	A	16	<div></div>	-A100	-X10:18					&FS/12.7
													<div></div>							
													<div></div>							
24VDC BR												16	<div></div>							&FS/12.7
0VDC BU												16	<div></div>							&FS/12.7
MainStatusFocus1										-K1	14	17	<div></div>	-A100	-X10:21					&FS/13.1
													<div></div>							
													<div></div>							
24VDC BR										-K1	13+	17	<div></div>							&FS/13.2
0VDC BU												17	<div></div>							&FS/13.2
MainStatusFocus2										-K2	14	18	<div></div>	-A100	-X10:22					&FS/13.2
													<div></div>							
													<div></div>							
24VDC BR	24VDC BR									-K2	13+	18	<div></div>							&FS/13.2
0VDC BU	0VDC BU											18	<div></div>							&FS/13.3
RFDriverACFail	RFDriverACFail									-X_RFDrive	D	19	<div></div>	-A100	-X10:23					&FS/13.3
													<div></div>							
													<div></div>							
24VDC BR										-X_RFDrive	C	19	<div></div>							&FS/13.3
0VDC BU												19	<div></div>							&FS/13.3
RFDriverDCFail										-X_RFDrive	F	20	<div></div>	-A100	-X10:24					&FS/13.4
													<div></div>							
													<div></div>							
24VDC BR										-X_RFDrive	E	20	<div></div>							&FS/13.4
0VDC BU												20	<div></div>							&FS/13.4
RFDriverOverTemp										-X_RFDrive	A	21	<div></div>	-A100	-X10:25					&FS/13.4
													<div></div>							
													<div></div>							

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ePLAN® electric 8 V2.5.4	DESIGN SITE ESS			NEXT 6.3			

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XDI						Cable name					Page / column
										Target designation	Connection point	Terminal	Jumpet	Target designation	Connection point						
24VDC BR										-X_RFDrive	G	21									&FS/13.5
0VDC BU												21									&FS/13.5
AD1A										-X_AD1	B	22		-A100	-X10:26						&FS/13.5
24VDC BR												22									&FS/13.5
0VDC BU												22									&FS/13.6
AD1B										-X_AD1	D	23		-A100	-X10:27						&FS/13.6
24VDC BR												23									&FS/13.6
0VDC BU												23									&FS/13.6
AD2A										-X_AD2	B	24		-A100	-X10:28						&FS/13.7
24VDC BR												24									&FS/13.7
0VDC BU												24									&FS/13.7
AD2B										-X_AD2	D	25		-A100	-X10:31						&FS/14.1
24VDC BR												25									&FS/14.2
0VDC BU												25									&FS/14.2
I-REGStatus										-Q22	12	26		-A100	-X10:32						&FS/14.2
24VDC BR												26									&FS/14.2
0VDC BU												26									&FS/14.3
FilamentLocalRemoteStatus										-Q21	12	27		-A100	-X10:33						&FS/14.3
24VDC BR												27									&FS/14.3
0VDC BU												27									&FS/14.3
FilamentONStatus										-Q23	12	28		-A100	-X10:34						&FS/14.4

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Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name	Strip =ESS.ACC.DTL+SIM-XDI						Cable name						Page / column
										Target designation	Connection point	Terminal	Jumper	Target designation	Connection point							
													<div><div></div><div></div><div></div><div></div></div>									
24VDC BR											28										&FS/14.4	
0VDC BU											28										&FS/14.4	
FilamentFAULTStatus									-Q24	12	29			-A100	-X10:35					&FS/14.4		
													<div><div></div><div></div><div></div><div></div></div>									
24VDC BR											29										&FS/14.5	
0VDC BU											29										&FS/14.5	
PowerConverterNoFault									-Q25	14	30			-A100	-X10:36					&FS/14.5		
													<div><div></div><div></div><div></div><div></div></div>									
24VDC BR								-Q25		11	30										&FS/14.5	
0VDC BU											30										&FS/14.6	
StatusInterlockFastPowerAbort									-X_InterlocksPLC	H	31			-A100	-X10:37					&FS/14.6		
													<div><div></div><div></div><div></div><div></div></div>									
24VDC BR								-X_InterlocksPLC		G	31										&FS/14.6	
0VDC BU											31										&FS/14.6	
StatusInterlockRFEnable									-X_InterlocksPLC	K	32			-A100	-X10:38					&FS/14.7		
													<div><div></div><div></div><div></div><div></div></div>									
24VDC BR								-X_InterlocksPLC		J	32										&FS/14.7	
0VDC BU											32										&FS/14.7	
StatusInterlockRFEnable									-PE1	PE	PE									&FS/14.8		
													<div><div></div><div></div><div></div><div></div></div>									
													<div><div></div><div></div><div></div><div></div></div>									



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Parts list

ESS_Parts_list_ver2

Device tag	ESS Name	PCS.	Designation	Type number	Supplier	Part number	ESS-Part number
		1	TS Partial mounting plate, for TS, SE, W/DH: 500x700 mm	TS.8614680	Rittal	RIT.8614680	
		1				SCHROFF.20838111	
		1	DIN rail perforated	NS 35/ 7,5 PERF 2000MM	Phoenix Contact	PXC.0801733	0801733
		1	Cable duct	CD 25X60	Phoenix Contact	PXC.3240191	3240191
		1	Cable duct	CD 30X60	Phoenix Contact	PXC.3240280	3240280
		1	Cable duct	CD 40X60	Phoenix Contact	PXC.3240192	3240192
		1	Cable duct	CD 60X60	Phoenix Contact	PXC.3240193	3240193
-A1		1	CPU 1511-1 PN	6ES7511-1AK01-0AB0	Siemens	SIE.6ES7511-1AK01-0AB0	SIE.6ES7511-1AK01-0AB0
-A1		1	Memory Card 4MB	6ES7954-8LC02-0AA0	Siemens	SIE.6ES7954-8LC02-0AA0	SIE.6ES7954-8LC02-0AA0
-A1		1	IE FC RJ45 PLUG 180 2X2	6GK1901-1BB10-2AA0	Siemens	SIE.6GK1901-1BB10-2AA0	
-A1		1	IE FC TP Standard Cable GP 2 x 2 (Type A)	6XV1840-2AH10	Siemens	SIE.6XV1840-2AH10	
-A1		1	MOUNTING RAIL 482MM (19")	6ES7590-1AE80-0AA0	Siemens	SIE.6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0
-A2		1	IM155-6 PN ST INCL. BA 2XRJ45	6ES7155-6AA00-0BN0	Siemens	SIE.6ES7155-6AA00-0BN0	
-A2		1	IE FC RJ45 PLUG 180 2X2	6GK1901-1BB10-2AA0	Siemens	SIE.6GK1901-1BB10-2AA0	
-A10		1	COMMUNICATION MODULE CM 1542-5	6GK7542-5DX00-0XE0	Siemens	SIE.6GK7542-5DX00-0XE0	
-A100		1	DI 32X24VDC HF	6ES7521-1BL00-0AB0	Siemens	SIE.6ES7521-1BL00-0AB0	
-A100		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A110		1	DI 32X24VDC HF	6ES7521-1BL00-0AB0	Siemens	SIE.6ES7521-1BL00-0AB0	
-A110		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A120		1	S7-1500, DQ 16X24VDC/0.5A ST	6ES7522-1BH00-0AB0	Siemens	SIE.6ES7522-1BH00-0AB0	SIE.6ES7522-1BH00-0AB0
-A120		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A130		1	S7-1500, DQ 16X24VDC/0.5A ST	6ES7522-1BH00-0AB0	Siemens	SIE.6ES7522-1BH00-0AB0	SIE.6ES7522-1BH00-0AB0
-A130		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A140		1	AQ 8XU/I HS	6ES7532-5HF00-0AB0	Siemens	SIE.6ES7532-5HF00-0AB0	SIE.6ES7532-5HF00-0AB0
-A140		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A150		1	AQ 8XU/I HS	6ES7532-5HF00-0AB0	Siemens	SIE.6ES7532-5HF00-0AB0	SIE.6ES7532-5HF00-0AB0
-A150		1	FRONTCONNECTOR SCREW TYPE (35MM MOD.)	6ES7592-1AM00-0XB0	Siemens	SIE.6ES7592-1AM00-0XB0	
-A200		1	AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1	Siemens	SIE.6ES7134-6JD00-0CA1	
-A200		1	BASEUNIT TYPE A1, BU15-P16+A0+12D/T	6ES7193-6BP40-0DA1	Siemens	SIE.6ES7193-6BP40-0DA1	
-A210		1	AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1	Siemens	SIE.6ES7134-6JD00-0CA1	
-A210		1	BASEUNIT TYPE A1, BU15-P16+A0+12B/T	6ES7193-6BP40-0BA1	Siemens	SIE.6ES7193-6BP40-0BA1	
-A220		1	AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1	Siemens	SIE.6ES7134-6JD00-0CA1	
-A220		1	BASEUNIT TYPE A1, BU15-P16+A0+12B/T	6ES7193-6BP40-0BA1	Siemens	SIE.6ES7193-6BP40-0BA1	
-A230		1	AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1	Siemens	SIE.6ES7134-6JD00-0CA1	
-A230		1	BASEUNIT TYPE A1, BU15-P16+A0+12B/T	6ES7193-6BP40-0BA1	Siemens	SIE.6ES7193-6BP40-0BA1	
-A240		1	AI 8XI 2-/4-WIRE BASIC	6ES7134-6GF00-0AA1	Siemens	SIE.6ES7134-6GF00-0AA1	
-A240		1	BASEUNIT TYPE A0, BU15-P16+A10+2D	6ES7193-6BP20-0DA0	Siemens	SIE.6ES7193-6BP20-0DA0	
-A250		1	AI 8XI 2-/4-WIRE BASIC	6ES7134-6GF00-0AA1	Siemens	SIE.6ES7134-6GF00-0AA1	
-A250		1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens	SIE.6ES7193-6BP20-0BA0	
-A260		1	AI 8XI 2-/4-WIRE BASIC	6ES7134-6GF00-0AA1	Siemens	SIE.6ES7134-6GF00-0AA1	
-A260		1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens	SIE.6ES7193-6BP20-0BA0	
-A270		1	AI 8XI 2-/4-WIRE BASIC	6ES7134-6GF00-0AA1	Siemens	SIE.6ES7134-6GF00-0AA1	
-A270		1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens	SIE.6ES7193-6BP20-0BA0	
-A280		1	AI 8XU BASIC	6ES7134-6FF00-0AA1	Siemens	SIE.6ES7134-6FF00-0AA1	
-A280		1	BASEUNIT TYPE A1, BU15-P16+A0+12D/T	6ES7193-6BP40-0DA1	Siemens	SIE.6ES7193-6BP40-0DA1	
-A290		1	AI 8XU BASIC	6ES7134-6FF00-0AA1	Siemens	SIE.6ES7134-6FF00-0AA1	
-A290		1	BASEUNIT TYPE A1, BU15-P16+A0+12B/T	6ES7193-6BP40-0BA1	Siemens	SIE.6ES7193-6BP40-0BA1	
-D1		1	Interface module	VIP-2/SC/PDM-2/32	Phoenix Contact	PXC.2315272	
-D1		4	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-D2		1	Interface module	VIP-2/SC/PDM-2/32	Phoenix Contact	PXC.2315272	
-F1		1	3A 2P Pole thermal magnetic circuit breaker	GB2DB08		SE.GB2DB08	
-F2		1	2A 2P Pole thermal magnetic circuit breaker	GB2DB07		SE.GB2DB07	
-K1		1	Solid-state relay terminal block	DEK-OV- 5DC/ 24DC/ 3	Phoenix Contact	PXC.2941361	
-K1		4	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	

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		ESS			=ESS.ACC.DTL+SIM&PC/1			
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Parts list

ESS_Parts_list_ver2

Device tag	ESS Name	PCS.	Designation	Type number	Supplier	Part number	ESS-Part number
-K2		1	Solid-state relay terminal block	DEK-OV- 5DC/ 24DC/ 3	Phoenix Contact	PXC.2941361	
-K3		1	Solid-state relay terminal block	DEK-OV- 5DC/ 24DC/ 3	Phoenix Contact	PXC.2941361	
-Q1		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q1		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q1		1	Continuous plug-in bridge	FBST 500-PLC BU	Phoenix Contact	PXC.2966692	
-Q1		1	Continuous plug-in bridge	FBST 500-PLC RD	Phoenix Contact	PXC.2966786	
-Q1		4	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-Q2		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q2		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q3		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q3		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q4		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q4		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q5		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q5		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q6		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q6		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q7		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q7		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q8		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q8		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q9		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q9		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q10		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q10		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q11		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q11		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q12		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q12		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q13		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q13		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q14		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q14		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q15		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q15		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q16		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q16		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q17		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q17		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q18		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q18		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q19		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q19		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-Q20		1	Relay socket	PLC-BSC- 12DC/21	Phoenix Contact	PXC.2966896	
-Q20		1	Single relay	REL-MR- 12DC/21	Phoenix Contact	PXC.2961150	
-Q20		2	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-Q21		1	Relay socket	PLC-BSC- 12DC/21	Phoenix Contact	PXC.2966896	
-Q21		1	Single relay	REL-MR- 12DC/21	Phoenix Contact	PXC.2961150	
-Q22		1	Relay socket	PLC-BSC- 12DC/21	Phoenix Contact	PXC.2966896	
-Q22		1	Single relay	REL-MR- 12DC/21	Phoenix Contact	PXC.2961150	
-Q23		1	Relay socket	PLC-BSC- 12DC/21	Phoenix Contact	PXC.2966896	
-Q23		1	Single relay	REL-MR- 12DC/21	Phoenix Contact	PXC.2961150	
-Q24		1	Relay socket	PLC-BSC- 12DC/21	Phoenix Contact	PXC.2966896	
-Q24		1	Single relay	REL-MR- 12DC/21	Phoenix Contact	PXC.2961150	

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Parts list

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Device tag	ESS Name	PCS.	Designation	Type number	Supplier	Part number	ESS-Part number
-Q25		1	Single relay	REL-MR- 24DC/21	Phoenix Contact	PXC.2961105	
-Q25		1	Relay socket	PLC-BPT- 24DC/21	Phoenix Contact	PXC.2900445	
-S1		1	White flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW31B5	SE	SE.XB5AW31B5	
-S2		1	Red flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW34B5	SE	SE.XB5AW34B5	
-S3		1	green flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW33B5	SE	SE.XB5AW33B5	
-S4		1	White flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW31B5	SE	SE.XB5AW31B5	
-S5		1	Red flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW34B5	SE	SE.XB5AW34B5	
-S6		1	green flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW33B5	SE	SE.XB5AW33B5	
-S7		1	White flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	XB5AW31B5	SE	SE.XB5AW31B5	
-T1		1	POWER SUPPLY S7-1500	6EP1333-4BA00	Siemens	SIE.6EP1333-4BA00	SIE.6EP1333-4BA00
-T2		1	SITOP PSU100S 24 V/2.5 A	6EP1332-2BA20	Siemens	SIE.6EP1332-2BA20	
-U1		1	TS Partial mounting plate, for TS, SE, W/DH: 500x700 mm	TS.8614680	Rittal	RIT.8614680	
-X1		1	PE terminal	WPE 4	Weidmüller	WEI.1010100000	
-XAI		1	PE terminal	WPE 4	Weidmüller	WEI.1010100000	
-XAI		12	Feed-through terminal block	ST 2,5-PE/3L	Phoenix Contact	PXC.3036055	
-XAI		2	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-XAI		1	End cover	D-ST 2,5-PE/3L	Phoenix Contact	PXC.3036673	
-XAI		1	End plate	ZAP/TW ZDK2.5	Weidmüller	WEI.1674730000	
-XAI		48	Double-tier terminal	ZDK 2.5	Weidmüller	WEI.1674300000	
-XAO		10	Double-tier terminal	ZDK 2.5	Weidmüller	WEI.1674300000	
-XAO		1	End plate	ZAP/TW ZDK2.5	Weidmüller	WEI.1674730000	
-XAO		2	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-XAO		1	PE terminal	WPE 4	Weidmüller	WEI.1010100000	
-XDI		32	Initiator/actuator terminal	ZIA 1.5/3L-1S	Weidmüller	WEI.1651980000	
-XDI		32	Plug-in connector	ZVL 1.5 BL	Weidmüller	WEI.1650360000	
-XDI		32	Plug-in connector	ZVL 1.5 BR	Weidmüller	WEI.1650370000	
-XDI		1	End plate	ZAP/TW ZIA1.5/3L	Weidmüller	WEI.1649540000	
-XDI		2	End bracket	WEW 35/2	Weidmüller	WEI.1061200000	
-XDI		1	PE terminal	WPE 4	Weidmüller	WEI.1010100000	
-XPE		1	PE terminal	WPE 4	Weidmüller	WEI.1010100000	
-X_AD1		1				SOURIAU.UT00128SH6	
-X_AD1		8				SOURIAU.RC16M23K	
-X_AD1		1				SCHROFF.20838111	
-X_AD2		1				SOURIAU.UT00128SH6	
-X_AD2		8				SOURIAU.RC16M23K	
-X_AD3		1				SOURIAU.UT00128SH6	
-X_AD3		1				SCHROFF.20838111	
-X_AD4		1				SOURIAU.UT00128SH6	
-X_BlowerPatchControl		1				SOURIAU.UT00128SH6	
-X_BlowerPatchControl		8				SOURIAU.RC16M23K	
-X_BlowerPatchControl		1				SCHROFF.20838111	
-X_Filament		1				SOURIAU.UT002028SH6	
-X_Filament		16				SOURIAU.RC16M23K	
-X_Filament		1				SCHROFF.20838114	
-X_Focus1		1				SOURIAU.UT001619SH6	
-X_Focus1		12				SOURIAU.RC16M23K	
-X_Focus1		1				SCHROFF.20838114	
-X_Focus2		1				SOURIAU.UT001619SH6	
-X_Focus2		12				SOURIAU.RC16M23K	
-X_Focus3		1				SOURIAU.UT001619SH6	
-X_Focus3		1				SCHROFF.20838114	
-X_InterlockKlystron		1				SOURIAU.UT001619SH6	
-X_InterlockKlystron		10				SOURIAU.RC16M23K	
-X_InterlocksPC		1				SOURIAU.UT00128SH6	

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