



EUROPEAN SPALLATION SOURCE

Projekt name: Accelerator PSS
Functional Location (FBS): =ACC.F01
Physical Location (LBS): +ESS.G01 & +ESS.G02

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY ATZ	DATE	DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602			
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SYMBOLS AND INFORMATION

SYMBOLS

PROTECTIVE EARTH, PE



FUNCTIONAL EARTH, FE



PROTECTIVE BONDING, PB



FUNCTIONAL BONDING, FB



INFORMATION

SHIELDED EXTERNAL CABLES MUST BE CONNECTED TO THE EARTH-RAIL WITH SHIELD TERMINAL CLAMPS.

MINIMUM CONDUCTOR CROSS SECTION AREA FOR CONTROL CIRCUITS: 0,5mm²

MINIMUM CONDUCTOR CROSS SECTION AREA FOR POWER CIRCUITS: 1,5mm²

TERMINATION SLEEVES MUST BE USED ON INTERNAL CONDUCTORS.
ALL CABLES SHALL BE HALOGEN FREE

SS-EN 60204

Conductors for:	Colour:
Neutral Conductors	Light blue [EN 60204-1:2006 clause 13.2.3]
Earth conductors	Green-and-Yellow [EN 60204-1:2006 clause 13.2.2]
AC Power Circuits ¹⁾ DC Power Circuits with a voltage exceeding 50VDC.	Black
Control circuits AC, e.g. 230VAC.	Red
Control circuits and DC power circuits below 50VDC, e.g. PLC digital input (DI) & Digital output (DO) signals.	Dark Blue ²⁾
Analog control circuits, e.g. PLC analog input (AI) and output (AO) signals	Violet ²⁾
Excepted circuits ³⁾ [EN 60207-1:2006 clause 5.3.5]	Orange

1. Circuit that supplies power from the supply network to units of equipment used for productive operation and to transformers supplying control circuits.
2. Conductors carrying negative (0V/L-) potential may be provided with a white stripe along its full length, if not available instead a white ring may be provided in both ends of the conductor.
3. All conductors in circuits not disconnected by the supply disconnecting device shall be colored orange, see EN 60207-1:2006 clause 5.3.5.

IEC 60757

Colour	Letter Code
Black	BK
Brown	BN
Red	RD
Orange	OG
Yellow	YE
Green	GN
Blue	BU
Violet	VT
Grey	GY
White	WH
Pink	PK
Gold	GD
Turquoise	TQ
Silver	SR
Green-and-Yellow	GNYE

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AA/1		Title page				ATZ
AA/2		General information				ATZ
AB/1		Table of contents				ATZ
AB/2		Table of contents				ATZ
AB/3		Table of contents				ATZ
AB/4		Table of contents				ATZ
AB/5		Table of contents				ATZ
AB/6		Table of contents				
AB/7		Table of contents				
PD/1		Summarized parts list				ATZ
PD/2		Summarized parts list				ATZ
PD/3		Summarized parts list				

Zone 0

FS/1		Search buttons				ATZ
FS/2		Emergency Stop Button				ATZ
FS/3		Access Door (position monitoring switches)				ATZ
FS/4		Access Door (Fortress lock)				ATZ
FS/5		Key Exchange				ATZ
FS/6		Grounding Relay				ATZ
FS/7		Grounding Rod				ATZ
FS/8		Search light and sounder				ATZ
FS/9		Warning lights				ATZ

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Zone 0						
	PC/1	Part List				
=ESS.ACC.F01.K01.U1						
Red System PLC rack						
	LU/1	Panel layout	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	LU/2	Enclosure legend : =ESS.ACC.F01.K01.U1+-X1 - =ESS.ACC.F01.K01.U1+-X9	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
	LU/3	Enclosure legend : =ESS.ACC.F01.K01.U1+-PH1 - =ESS.ACC.F01.K01.U1+-PH1	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
	LU/4	Enclosure legend : =ESS.ACC.F01.K01.U1+-KF1 - =ESS.ACC.F01.K01.U1+-K32	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
	FS/1	Power layout (Main Power)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/2	Power layout (UPS&Battery)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/3	Power layout (Selec. module)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/4	Power from selec. module (PLC CPU + ET200)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/5	Power from selec. module (Scalance + HMI)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/6	Power from selec. module (F-DI + F-DQ)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/7	PLC F-DI module (2D)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/8	PLC F-DI module (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/9	PLC DI module 1 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/10	PLC DI module 2 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/11	PLC DI module 1 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/12	PLC DI module 2 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/13	PLC F-DQ module (2D)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/14	PLC F-DQ module (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/15	PLC DQ module 1 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
	FS/16	PLC DQ module 2 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ

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Red System PLC rack

FS/17	PLC DQ module 1 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
FS/18	PLC DQ module 2 (2B)	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
FS/19	24VDC Distribution blocks	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			ATZ
PC/1	Part List	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
PC/2	Part List	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
PC/3	Part List	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
PC/4	Part List	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			
PC/5	Part List	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001			

=ESS.ACC.F01.K01.U2

Red System RIO rack1

LU/1	Panel layout	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
LU/2	Enclosure legend : =ESS.ACC.F01.K01.U2+-X1 - =ESS.ACC.F01.K01.U2+-X9	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			
LU/3	Enclosure legend : =ESS.ACC.F01.K01.U2+-TA1 - =ESS.ACC.F01.K01.U2+-K32	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			
FS/1	Power layout (Main Power)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/2	Power layout (UPS&Battery)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/3	Power layout (Selec. module)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/4	Power from selec. module (ET200 + Scacalance)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/5	Power from selec. module (F-DI + F-DQ)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/6	PLC F-DI module (2D)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/7	PLC F-DI module (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/8	PLC DI module 1 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/9	PLC DI module 2 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ
FS/10	PLC DI module 1 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002			ATZ

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Red System RIO rack1

FS/11	PLC DI module 2 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/12	PLC F-DQ module (2D)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/13	PLC F-DQ module (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/14	PLC DQ module 1 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/15	PLC DQ module 2 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/16	PLC DQ module 1 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/17	PLC DQ module 2 (2B)	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
FS/18	24VDC Distribution blocks	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				ATZ
PC/1	Part List	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				
PC/2	Part List	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				
PC/3	Part List	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				
PC/4	Part List	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				
PC/5	Part List	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002				

=ESS.ACC.F01.K01.U3

Blue System PLC rack

LU/1	Panel layout	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				ATZ
LU/2	Enclosure legend : =ESS.ACC.F01.K01.U3+-X1 - =ESS.ACC.F01.K01.U3+-X9	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				
LU/3	Enclosure legend : =ESS.ACC.F01.K01.U3+-PH1 - =ESS.ACC.F01.K01.U3+-PH1	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				
LU/4	Enclosure legend : =ESS.ACC.F01.K01.U3+-KF1 - =ESS.ACC.F01.K01.U3+-K32	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				
FS/1	Power layout (Main Power)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				ATZ
FS/2	Power layout (UPS&Battery)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				ATZ
FS/3	Power layout (Selec. module)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				ATZ
FS/4	Power from selec. module (PLC CPU + ET200)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001				ATZ

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Blue System PLC rack

FS/5	Power from selec. module (Scalance + HMI)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/6	Power from selec. module (F-DI + F-DQ)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/7	PLC F-DI module (2D)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/8	PLC F-DI module (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/9	PLC DI module 1 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/10	PLC DI module 2 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/11	PLC DI module 1 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/12	PLC DI module 2 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/13	PLC F-DQ module (2D)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/14	PLC F-DQ module (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/15	PLC DQ module 1 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/16	PLC DQ module 2 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/17	PLC DQ module 1 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/18	PLC DQ module 2 (2B)	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
FS/19	24VDC Distribution blocks	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			ATZ
PC/1	Part List	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			
PC/2	Part List	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			
PC/3	Part List	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			
PC/4	Part List	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			
PC/5	Part List	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001			

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Blue System RIO rack1

LU/1	Panel layout	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002			ATZ
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Blue System RIO rack1

LU/2	Enclosure legend : =ESS.ACC.F01.K01.U4+-X1 - =ESS.ACC.F01.K01.U4+-X9	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
LU/3	Enclosure legend : =ESS.ACC.F01.K01.U4+-TA1 - =ESS.ACC.F01.K01.U4+-K32	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
FS/1	Power layout (Main Power)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/2	Power layout (UPS&Battery)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/3	Power layout (Selec. module)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/4	Power from selec. module (ET200 + Scacalance)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/5	Power from selec. module (F-DI + F-DQ)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/6	PLC F-DI module (2D)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/7	PLC F-DI module (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/8	PLC DI module 1 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/9	PLC DI module 2 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/10	PLC DI module 1 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/11	PLC DI module 2 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/12	PLC F-DQ module (2D)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/13	PLC F-DQ module (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/14	PLC DQ module 1 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/15	PLC DQ module 2 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/16	PLC DQ module 1 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/17	PLC DQ module 2 (2B)	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
FS/18	24VDC Distribution blocks	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				ATZ
PC/1	Part List	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
PC/2	Part List	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
PC/3	Part List	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
PC/4	Part List	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				

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Blue System RIO rack1

PC/5	Part List	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002				
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HV PS Contactors rack

LU/1	ISrcExt	HV PS Contactors Rack FEB-010ROW:CNPW-U-007				ATZ
LU/2	Enclosure legend : =ESS.ACC.F01.K01.U7+-X1 - =ESS.ACC.F01.K01.U7+-XF4					
FS/1	ISrcExt	HV PS Contactors Rack FEB-010ROW:CNPW-U-007				ATZ
PC/1	Part List					

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Summarized parts list

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Order number	Quantity	Description Designation	Type number Part number	Manufacturer Supplier
TA1T6R8SR414 / ITM-00127453 - amGuard Pro	1		TA1T6R8SR414 / ITM-00127453 - amGuard Pro TA1T6R8SR414 / ITM-00127453 - amGuard Pro	
OEZ:39111 (Manufacturer: SIEMENS)	2	Power Contactor	3RT1044-1BB44 (Manufacturer: SIEMENS) OEZ.3RT1044-1BB44	OEZ OEZ
3210156	606	Knife disconnect terminal block	PT 2,5-MT PXC.3210156	PXC PXC
3022276	10	End clamp	CLIPFIX 35-5 PXC.3022276	PXC PXC
3211003	34	End cover	D-PT 2,5-MT PXC.3211003	PXC PXC
3211757	4	Feed-through terminal block	PT 4 PXC.3211757	PXC PXC
3211760	4	Feed-through terminal block	PT 4 BU PXC.3211760	PXC PXC
3211766	4	Ground modular terminal block	PT 4-PE PXC.3211766	PXC PXC
2302366	8	Potential distributors	UMK- PVB 2/24/ZFKDS PXC.2302366	PXC PXC
ED120-NC-120-2-31-BD	1	Grounding relay	ED120-NC-120-2-31-BD ED120-NC-120-2-31-BD	Ross Engineering Ross Engineering
ACC1-8WHH-20-A-8	1	Grounding rod	ACC1-8WHH-20-A-8 ACC1-8WHH-20-A-8	Ross Engineering Ross Engineering
3SE6604-2BA	1	3SE6 magnetically operated switch (switching element)	3SE6604-2BA 3SE6604-2BA	SIE SIE
3SE5112-1QV10	1	position switch with separate actuator	3SE5112-1QV10 3SE5112-1QV10	SIE SIE
SIE.3SB3801-2AA3	2	ENCLOSURE FOR COMMAND DEVICES	SIE.3SB3801-2AA3	SIE SIE
3SU1152-0AB40-1BA0	2	ILLUMINATED PUSHBUTTON, GREEN	3SU1152-0AB40-1BA0 SIE.3SU1152-0AB40-1BA0	SIE SIE
3SU1051-1HB20-0AA0	1	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1051-1HB20-0AA0 SIE.3SU1051-1HB20-0AA0	SIE SIE
5SV3311-6	4	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6 SIE.5SV3311-6	SIE SIE
5SL6516-7	4	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7 SIE.5SL6516-7	SIE SIE
5SL6510-7	4	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7 SIE.5SL6510-7	SIE SIE

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>		DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
						ATZ		Accelerator PSS	ESS-0151602			
						CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						APPROVED BY		Summarized parts list	Preliminary	A3	1	
								FUNCTION	SHEET &PD/1			
							DESIGN SITE		NEXT 2			
							ESS					

Summarized parts list

ESS_Sum_Part_list_2017

Order number	Quantity	Description Designation	Type number Part number	Manufacturer Supplier
6EP19612BA11	4	SITOP PSE200U	6EP1961-2BA11 SIE.6EP1961-2BA11	SIE SIE
5SL6504-7	4	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7 SIE.5SL6504-7	SIE SIE
6EP4135-0GB00-0AY0	4	SITOP UPS1100	6EP4135-0GB00-0AY0 SIE.6EP4135-0GB00-0AY0	SIE SIE
LZS:PT3A5L24	128	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24 SIE.LZS:PT3A5L24	SIE SIE
6ES7518-4FP00-0AB0	2	CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0 SIE.6ES7518-4FP00-0AB0	SIE SIE
6ES7590-1AE80-0AA0	2	MOUNTING RAIL 482MM (19")	6ES7590-1AE80-0AA0 SIE.6ES7590-1AE80-0AA0	SIE SIE
6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0	4	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0 SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE SIE
6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0DA0	4	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0DA0 SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2D	SIE SIE
6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0BA0	4	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0BA0 SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2B	SIE SIE
6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	8	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0 SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	SIE SIE
6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0DA0	4	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0DA0 SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2D	SIE SIE
6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0BA0	4	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0BA0 SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2B	SIE SIE
6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	8	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0 SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	SIE SIE
6AV2124-0QC02-0AX0	2	TP1500 COMFORT	6AV2124-0QC02-0AX0 SIE.6AV2124-0QC02-0AX0	SIE SIE
5TL1232-0	8	ISOLATOR 32A DOUBLE POLE	5TL1232-0 5TL1232-0	SIE SIE
6EP4134-3AB00-2AY0	4	SITOP UPS1600	6EP4134-3AB00-2AY0 SIE.6EP4134-3AB00-2AY0	SIE
6EP1334-2BA20	4	SITOP PSU100S	6EP1334-2BA20 SIE.6EP1334-2BA20	SIE SIE
6GK5206-2BS00-2AC2	4	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2 SIE.6GK5206-2BS00-2AC2	SIE SIE
6GK5991-1AF00-8AA0	8	SFP991-1LD	6GK5991-1AF00-8AA0 SIE.6GK5991-1AF00-8AA0	SIE SIE

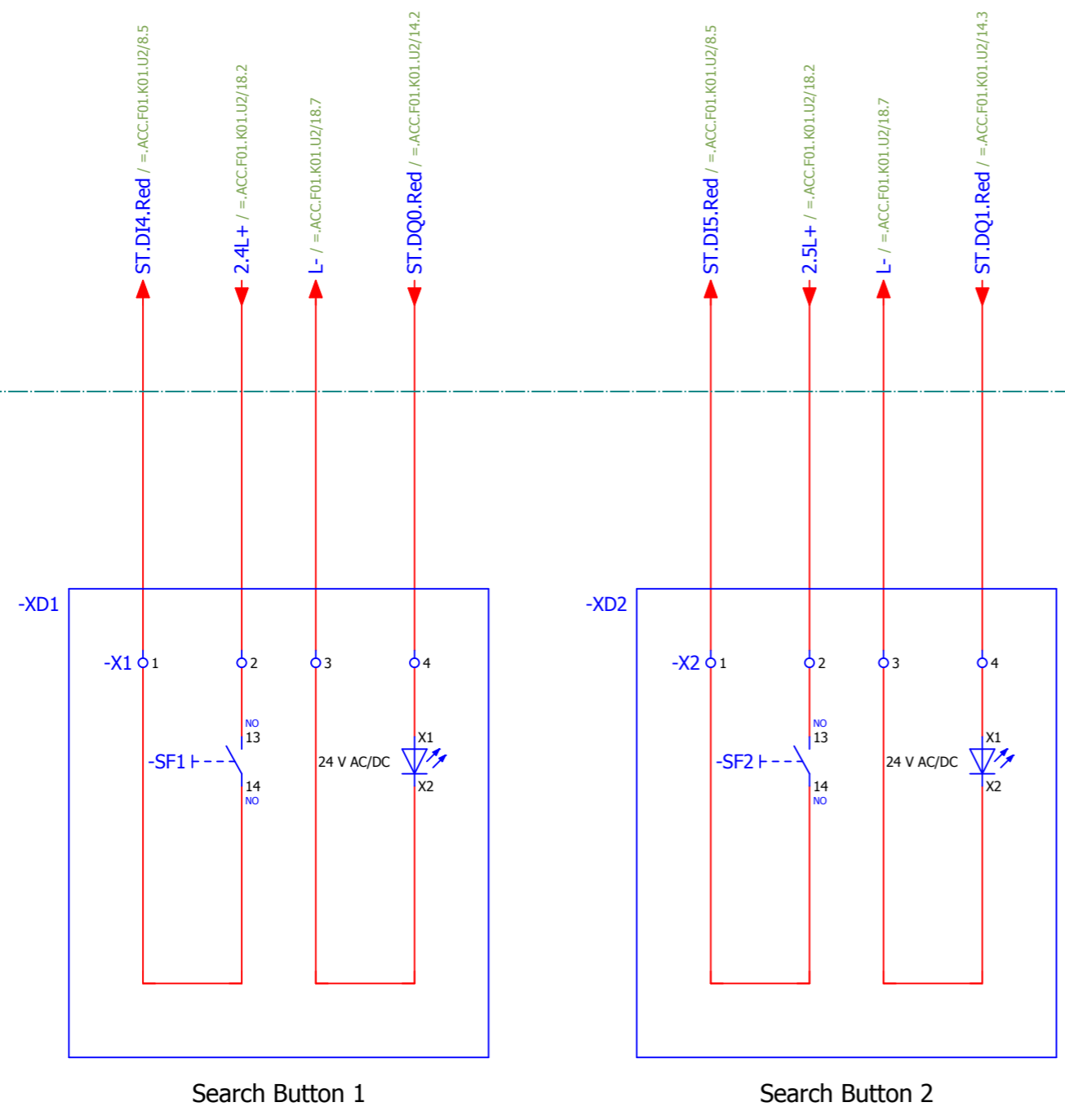
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						ATZ		Accelerator PSS	ESS-0151602			
						CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						APPROVED BY		Summarized parts list	Preliminary	A3	1	
								FUNCTION	SHEET &PD/2			
						DESIGN SITE	ESS		NEXT 3			
												

Summarized parts list

Order number	Quantity	Description Designation	Type number Part number	Manufacturer Supplier
5TE6800	8	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800 SIE.5TE6800	SIE SIE
3RH21221FB40	2	CONTACTOR RELAY, 2NO+2NC DC 24V, W. INTEGRATED DIODE	3RH2122-1FB40 3RH2122-1FB40	Siemens AG Siemens AG

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE Documentation protection ISO 16016	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)		
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602		
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Summarized parts list	LIFECYCLE LABEL		
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		DESIGN SITE	ESS		Preliminary		
								PAGE SIZE	PAGE SCALE	REV
								A3	1	
								SHEET	&PD/3	
								NEXT	=ESS.ACC.F01.F01&FS/1	

Inside PSS0
Controlled Area
=ESS.ACC.F01.F01
+G01.090.1001



Search Buttons



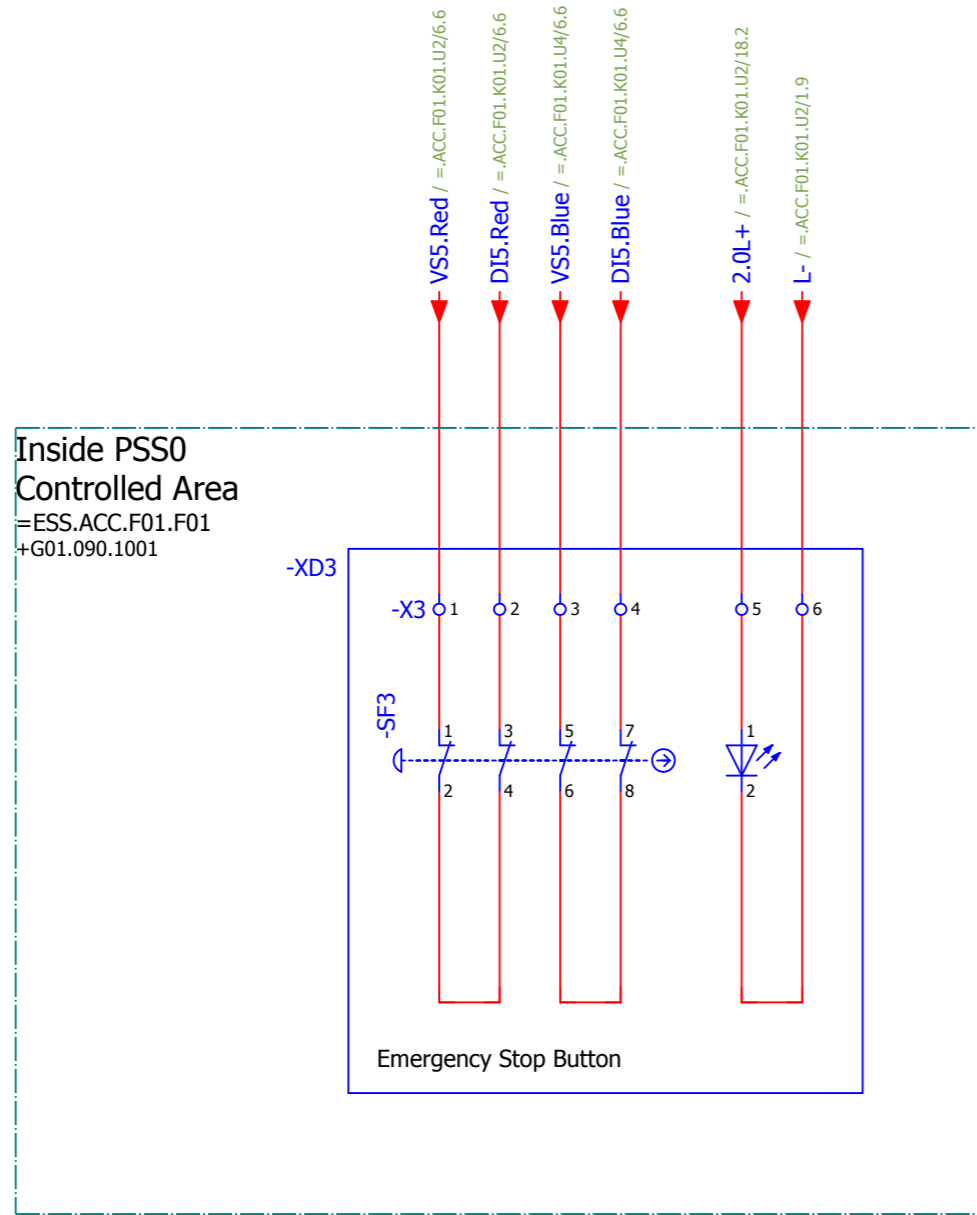
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CHECKED BY	DATE
APPROVED BY	DATE
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION

DRAWING NUMBER (Doc) ESS-0151602			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
SHEET =ESS.ACC.F01.F01&FS/1			
NEXT 2			



Emergency Stop Button

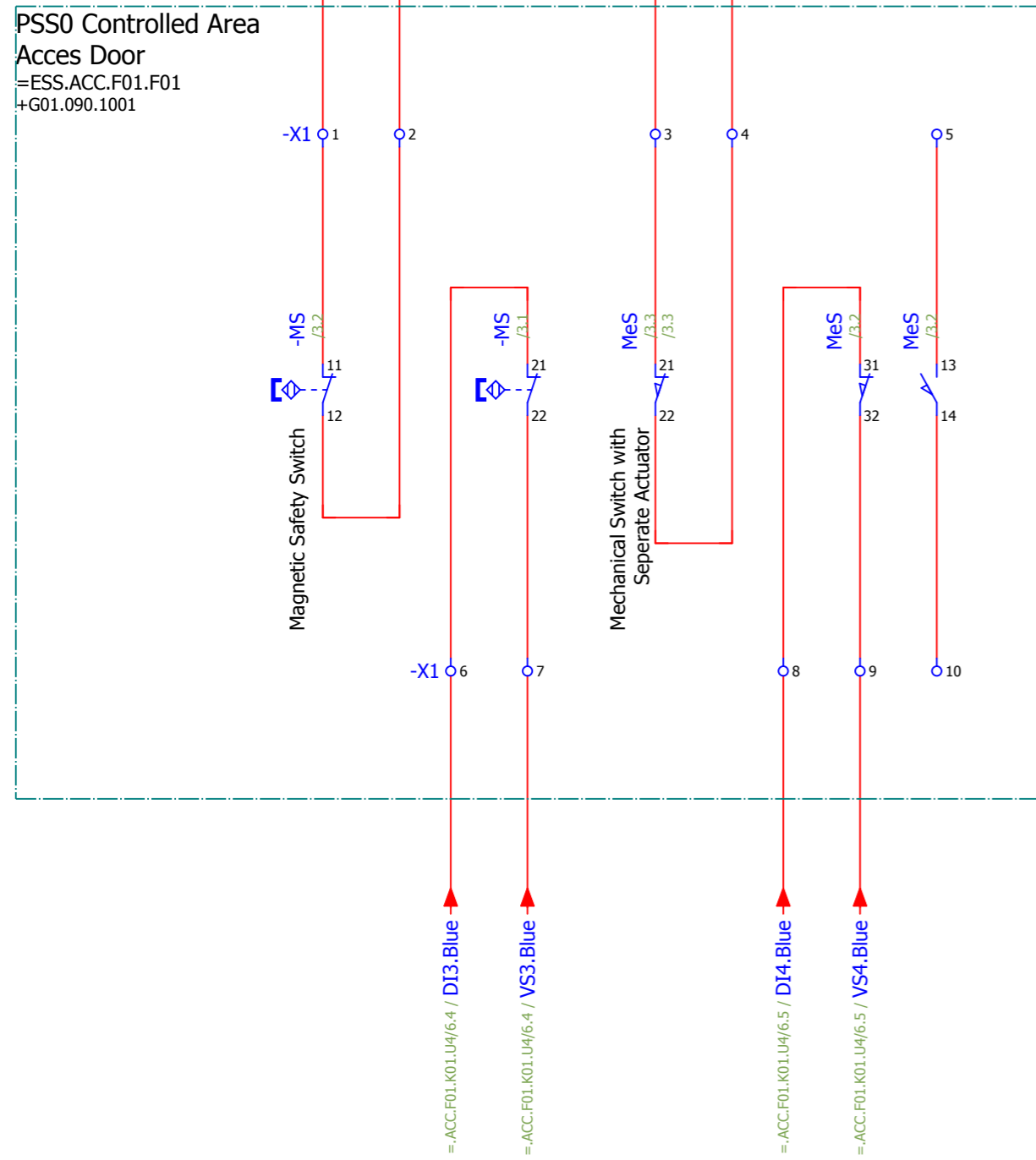


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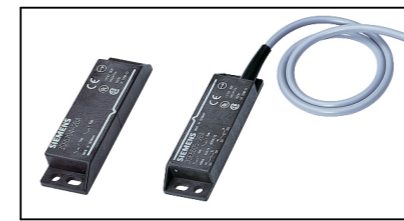


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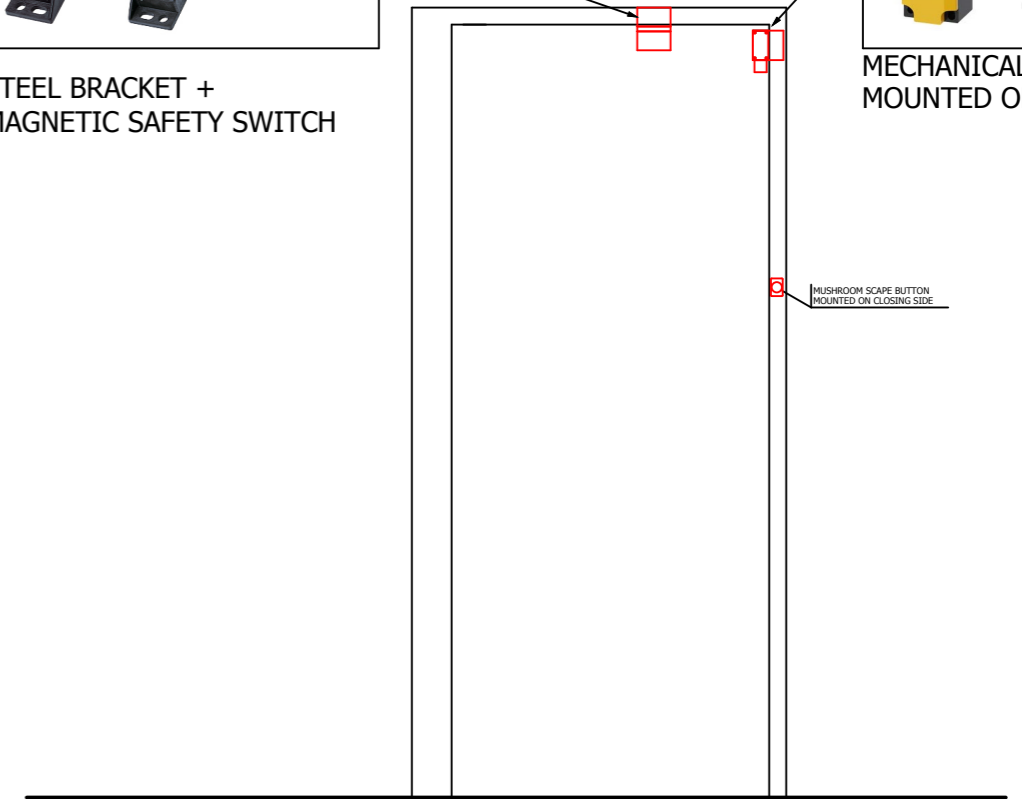
ISrc Fenced Area Access Door



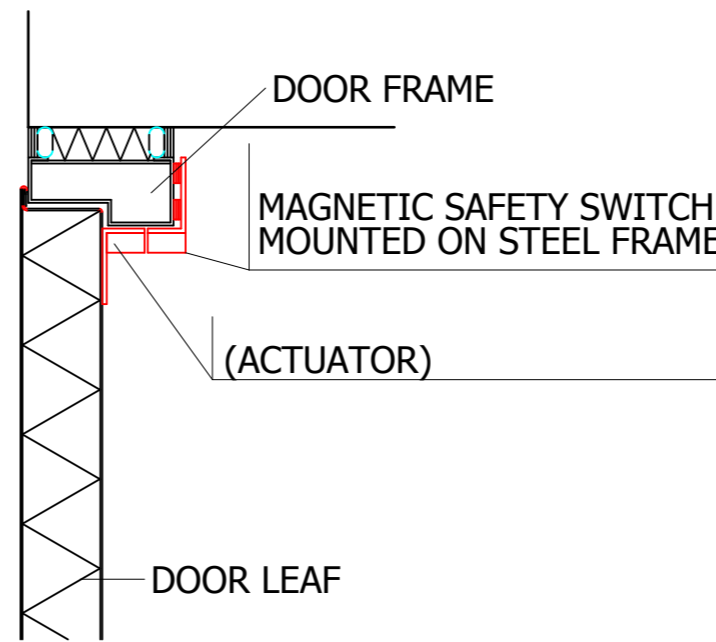
STEEL BRACKET +
MAGNETIC SAFETY SWITCH



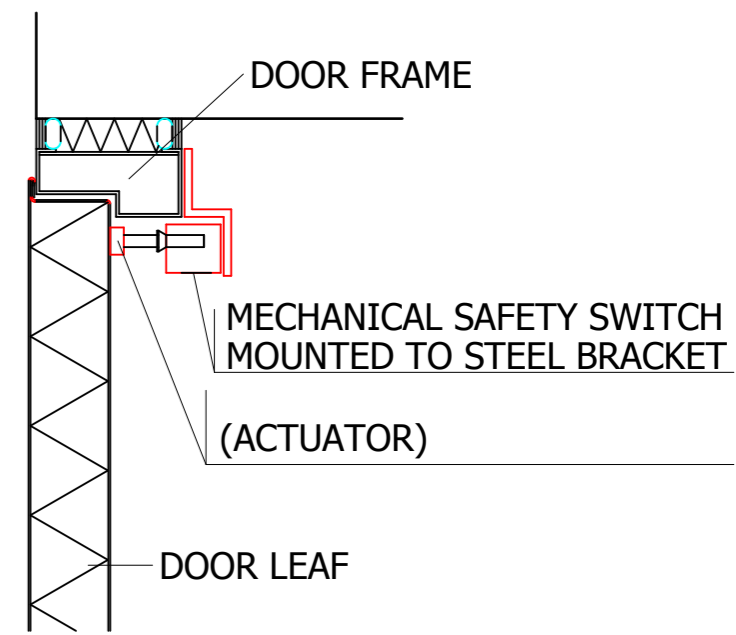
MECHANICAL SAFETY SWITCH
MOUNTED ON STEEL BRACKET



VIEW CLOSING FACE



SIDE VIEW



SIDE VIEW

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE

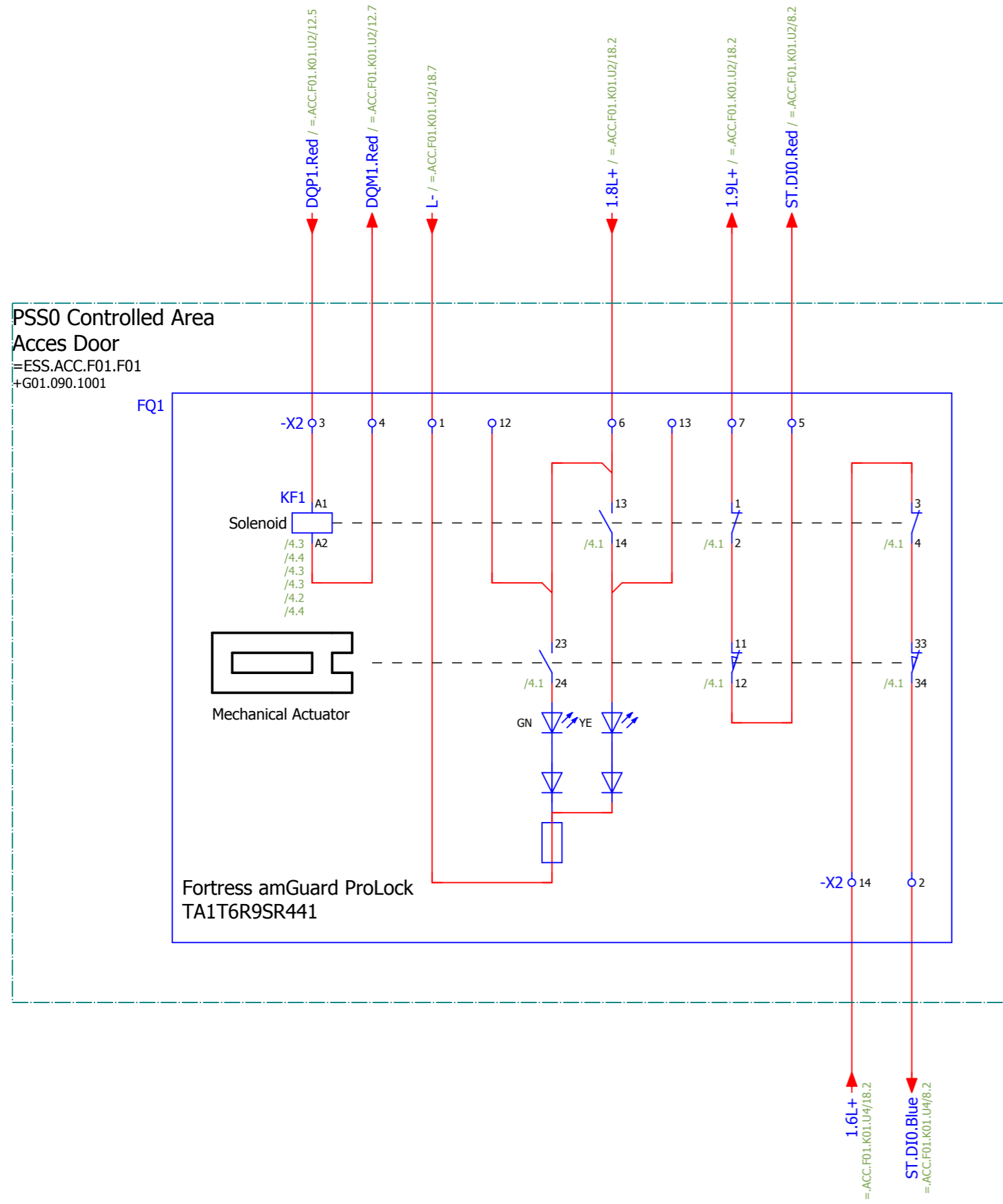


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APPROVED BY	DATE
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PAGE TYPE Schematic multi-line
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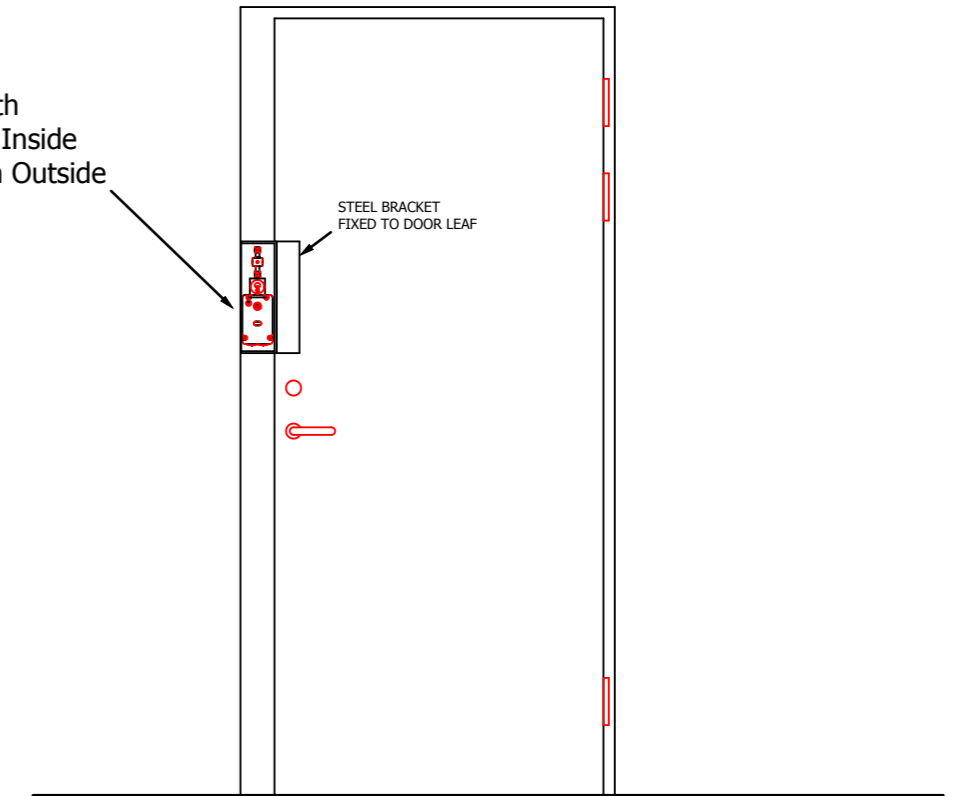
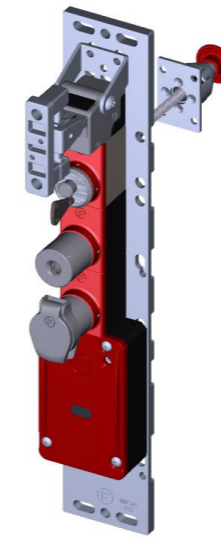
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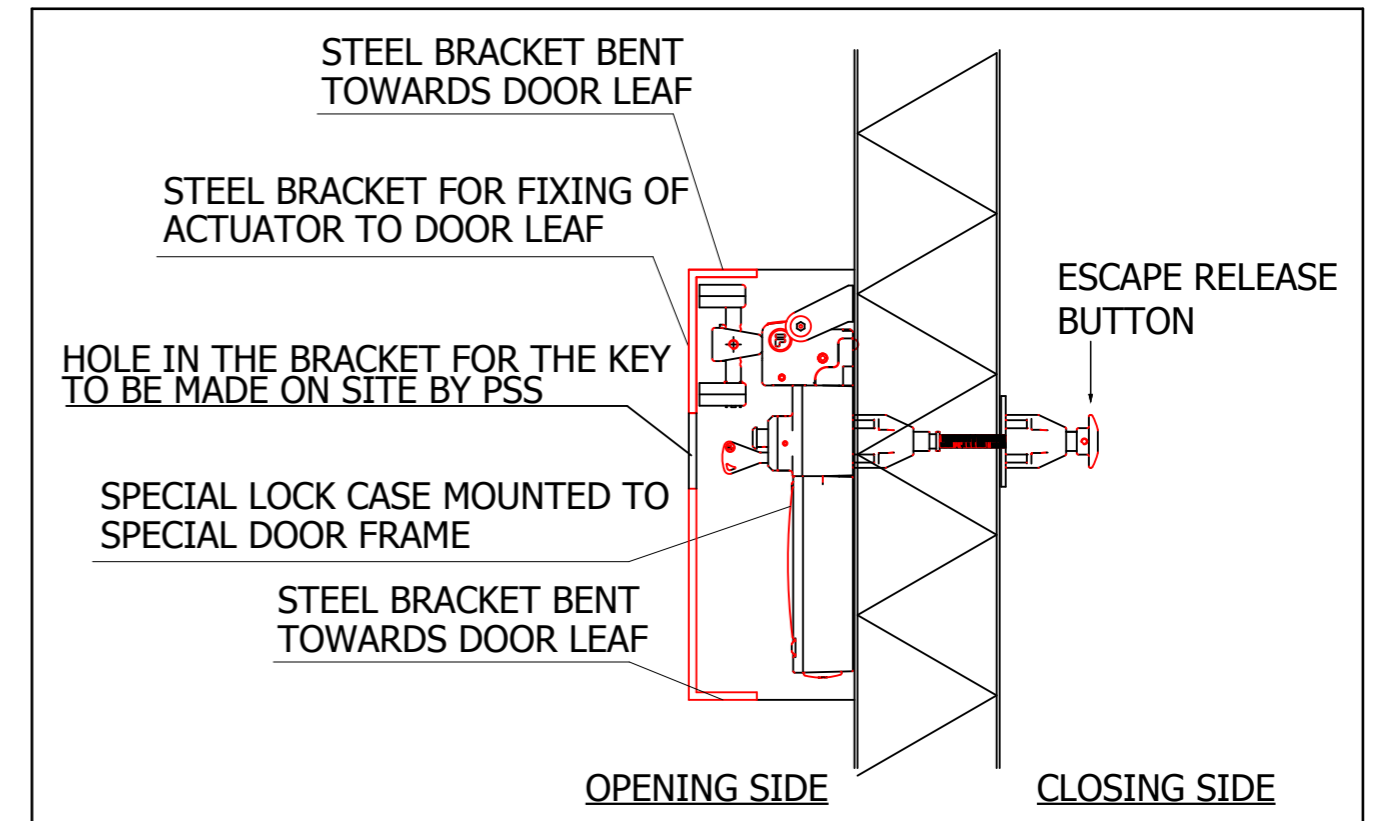


ISrc Fenced Area Access Door

FORTRESS LOCK with
 Escape Button from Inside
 & Override Key from Outside



VIEW OPENING FACE



Side view

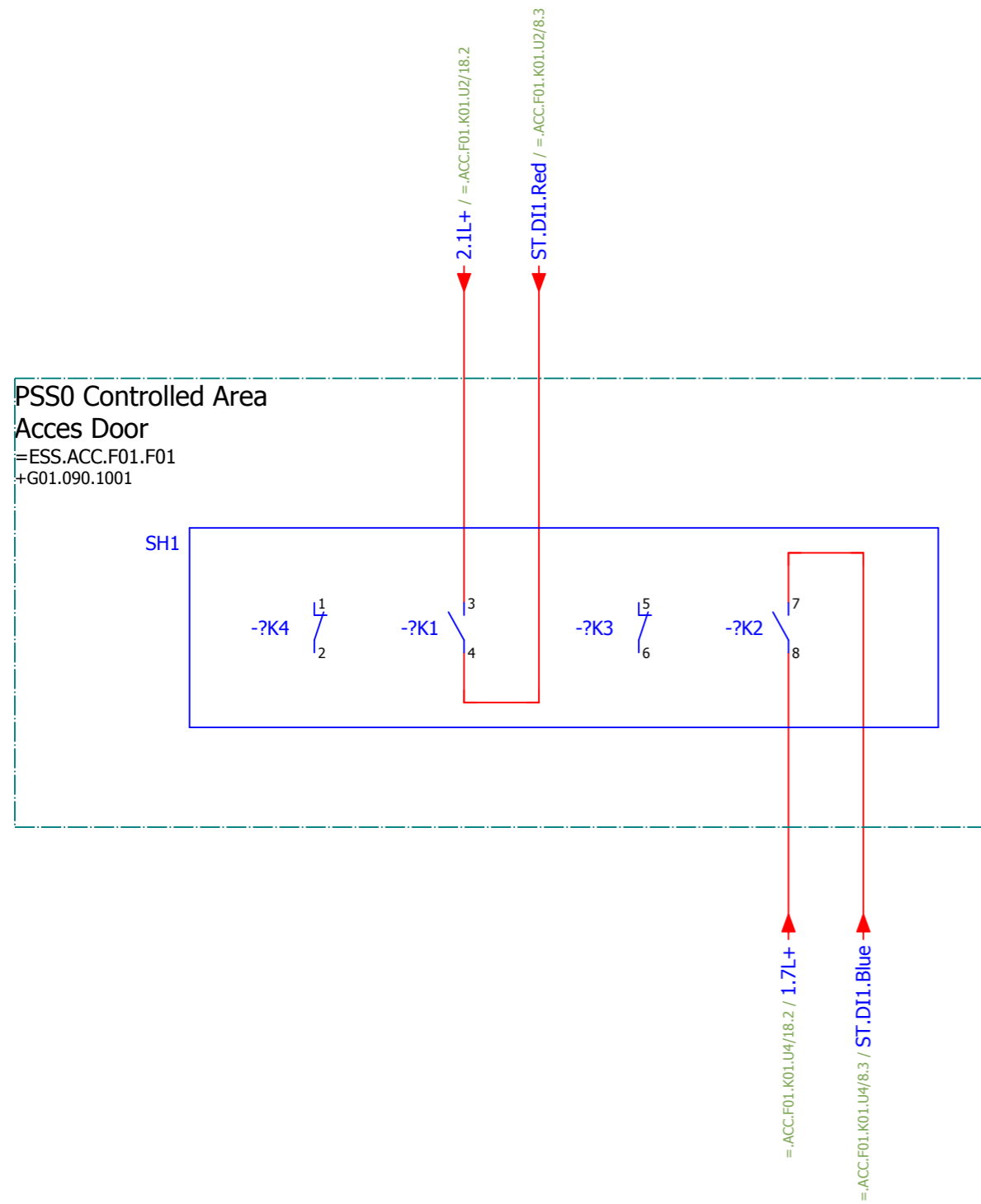
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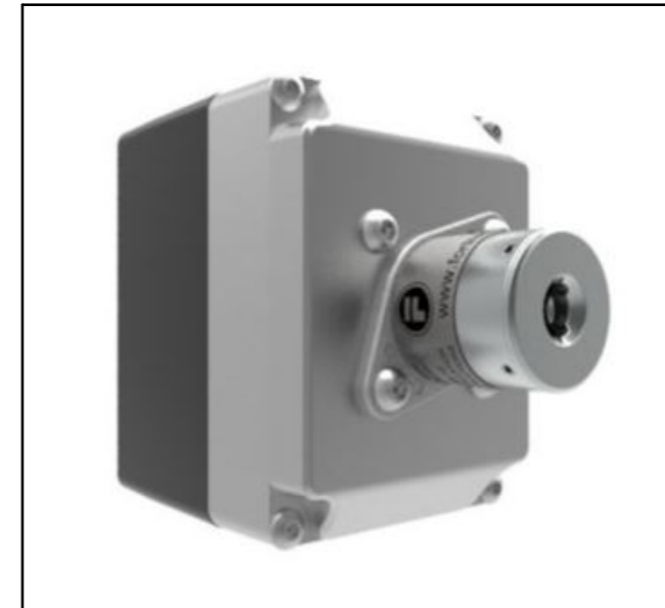
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Access Key Exchange Box



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



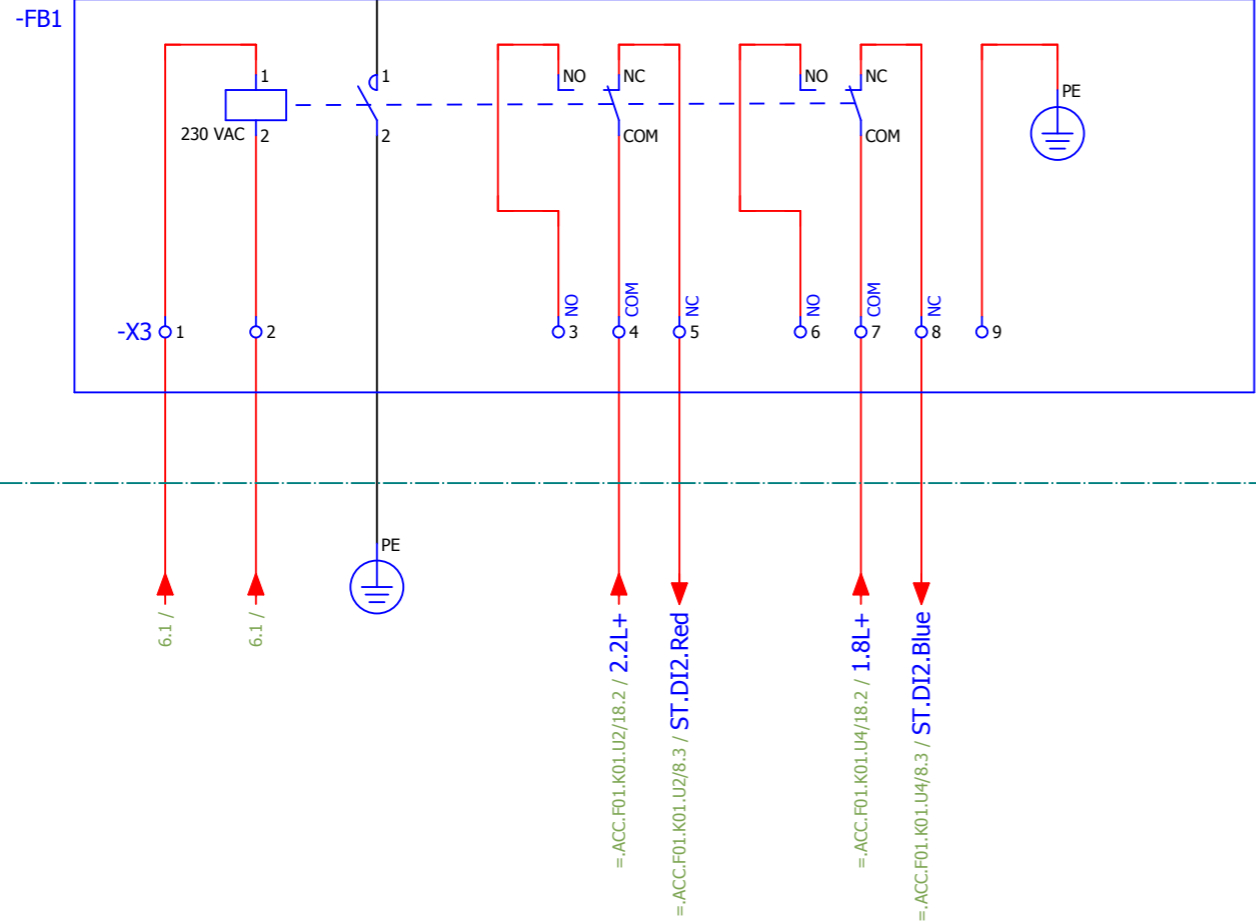
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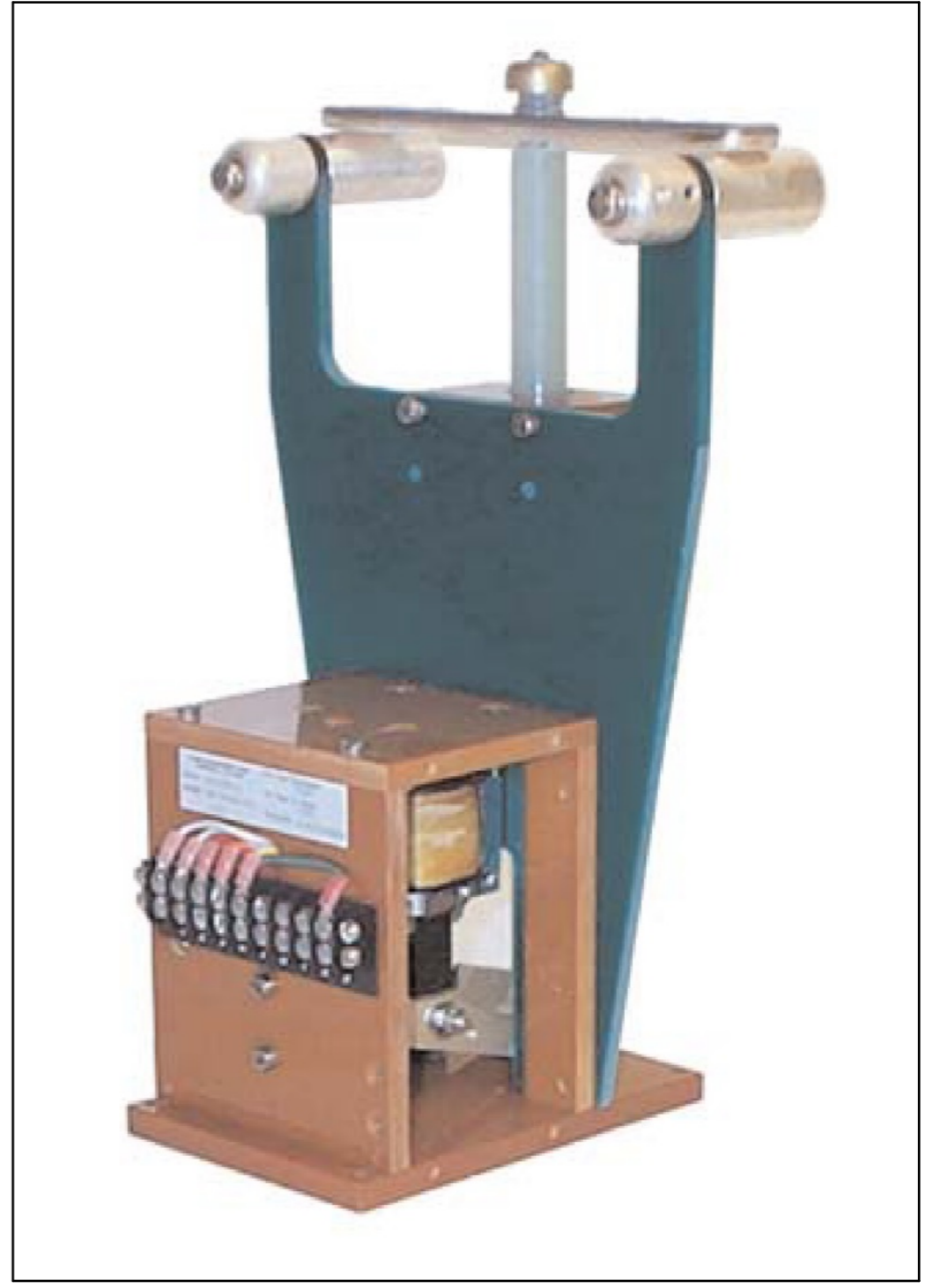
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Ion Source
High Voltage Platform

Inside PSS0
Controlled Area
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+G01.090.1001



Grounding Relay



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE

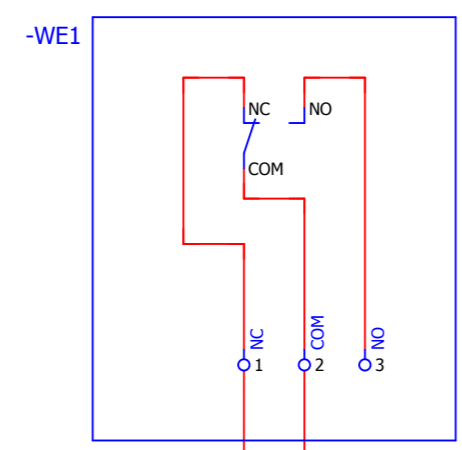


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PAGE TYPE Schematic multi-line
FUNCTION

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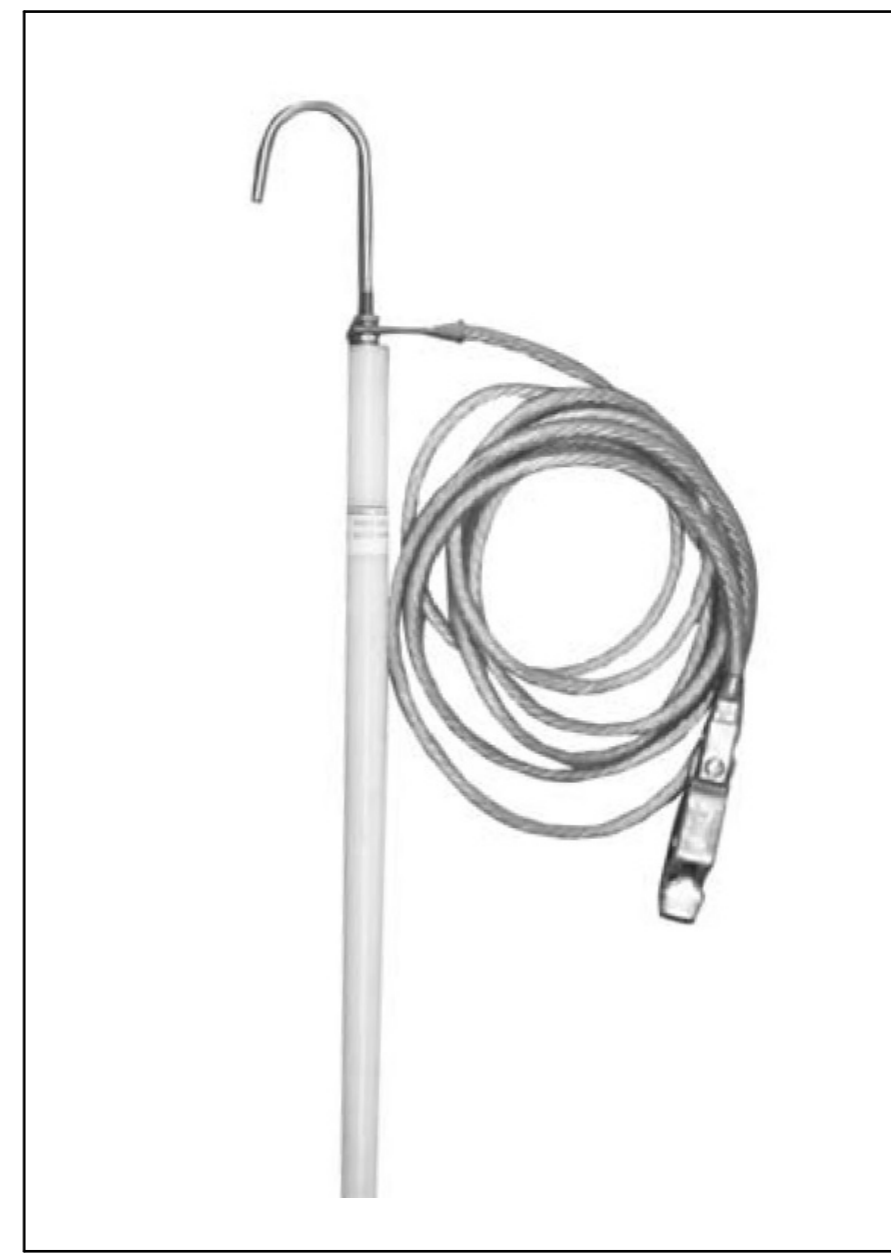
Inside PSS0
Controlled Area
=ESS.ACC.F01.F01
+G01.090.1001



=ACC.F01.K01.U2/18.4 / ST.DI3.Red

=ACC.F01.K01.U2/18.2 / 2.3L+

Grounding Rod



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE

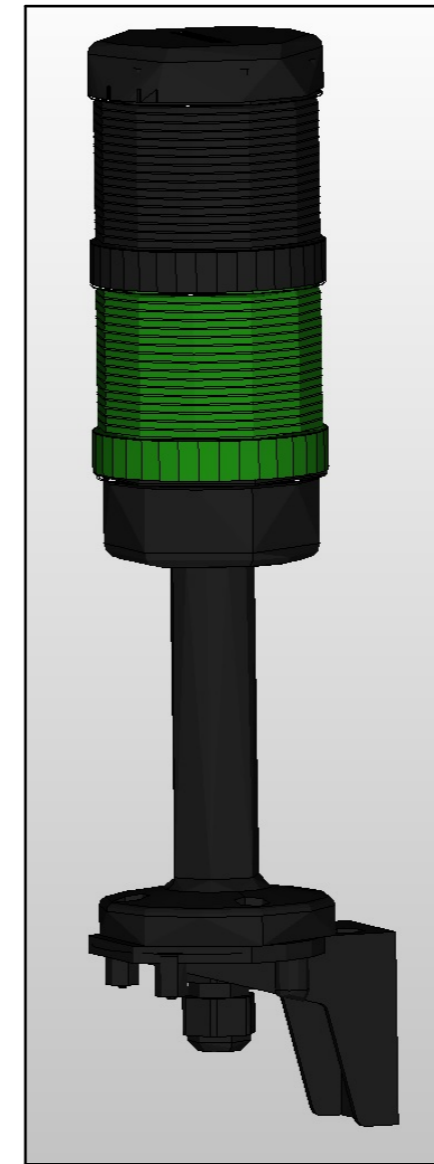
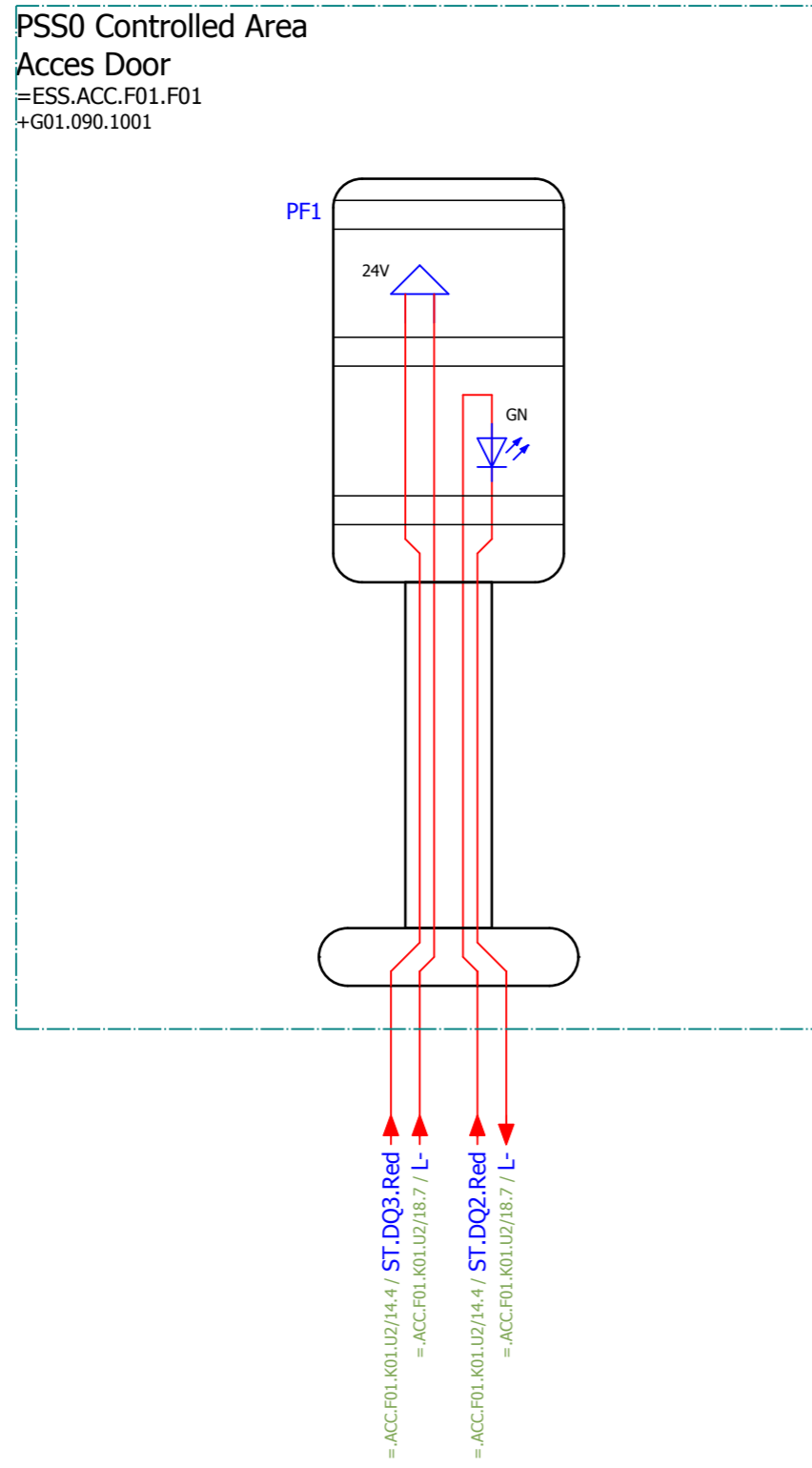


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FUNCTION	PAGE SIZE A3
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Signal Column (Green light + Sounder)



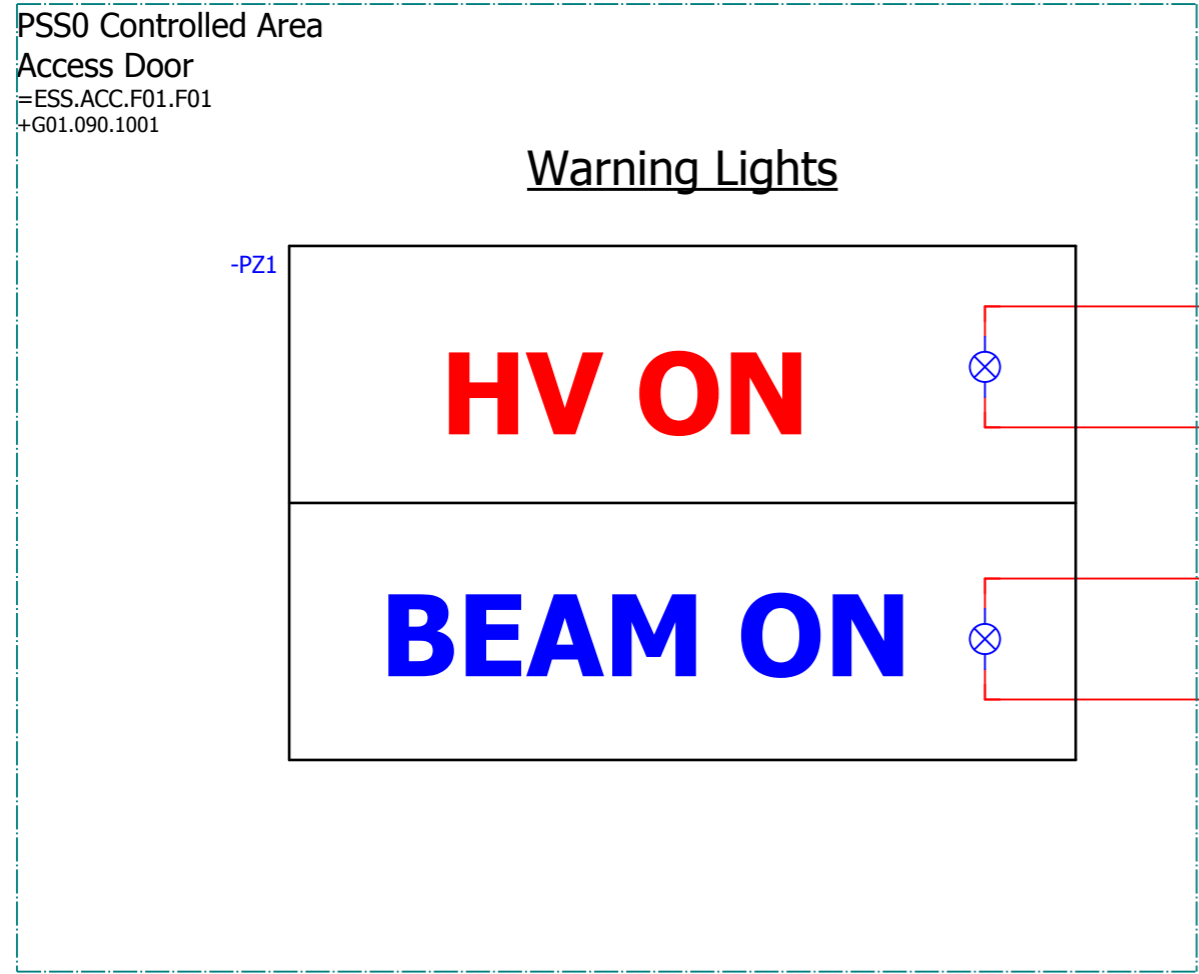
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION

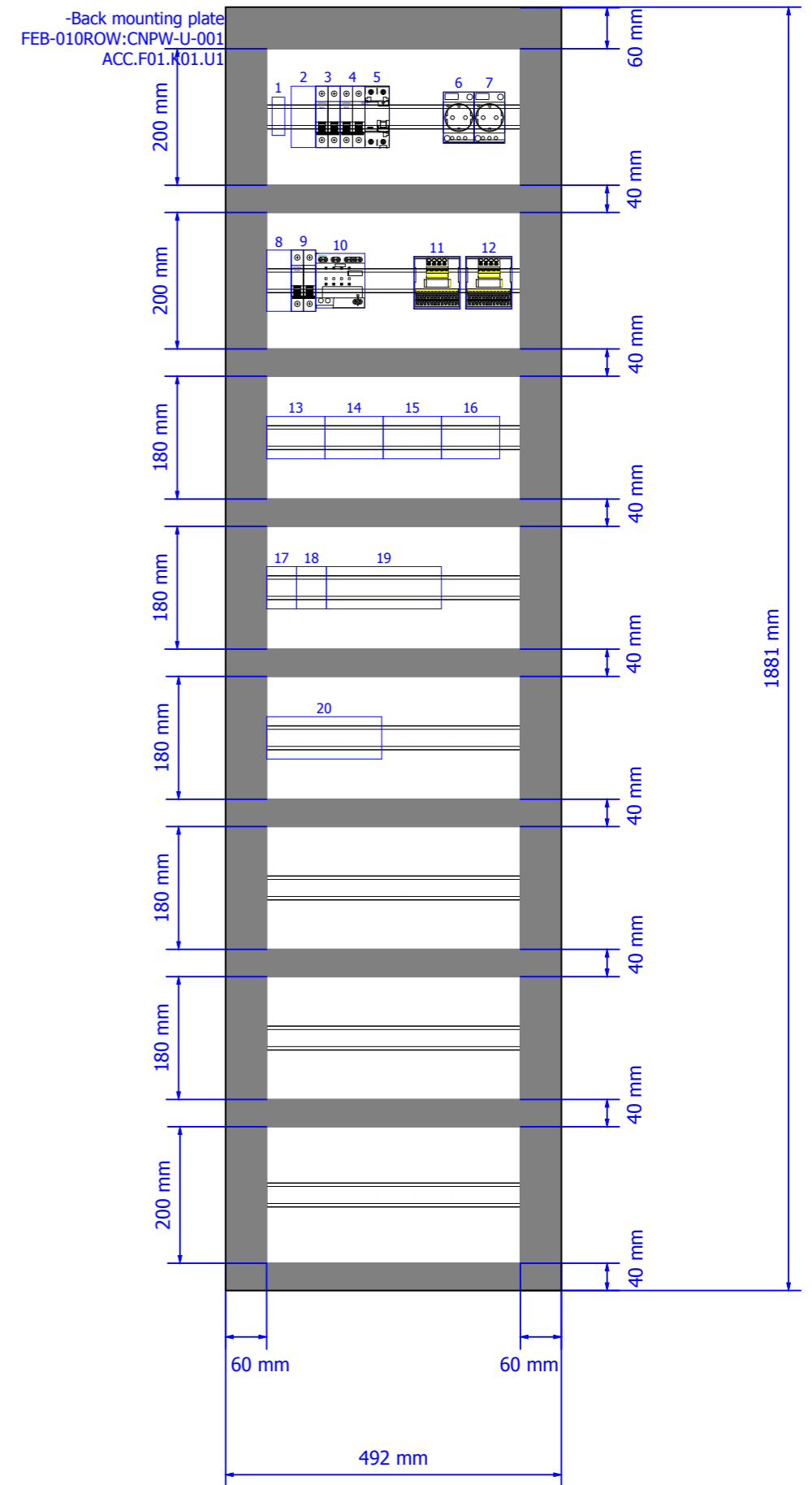
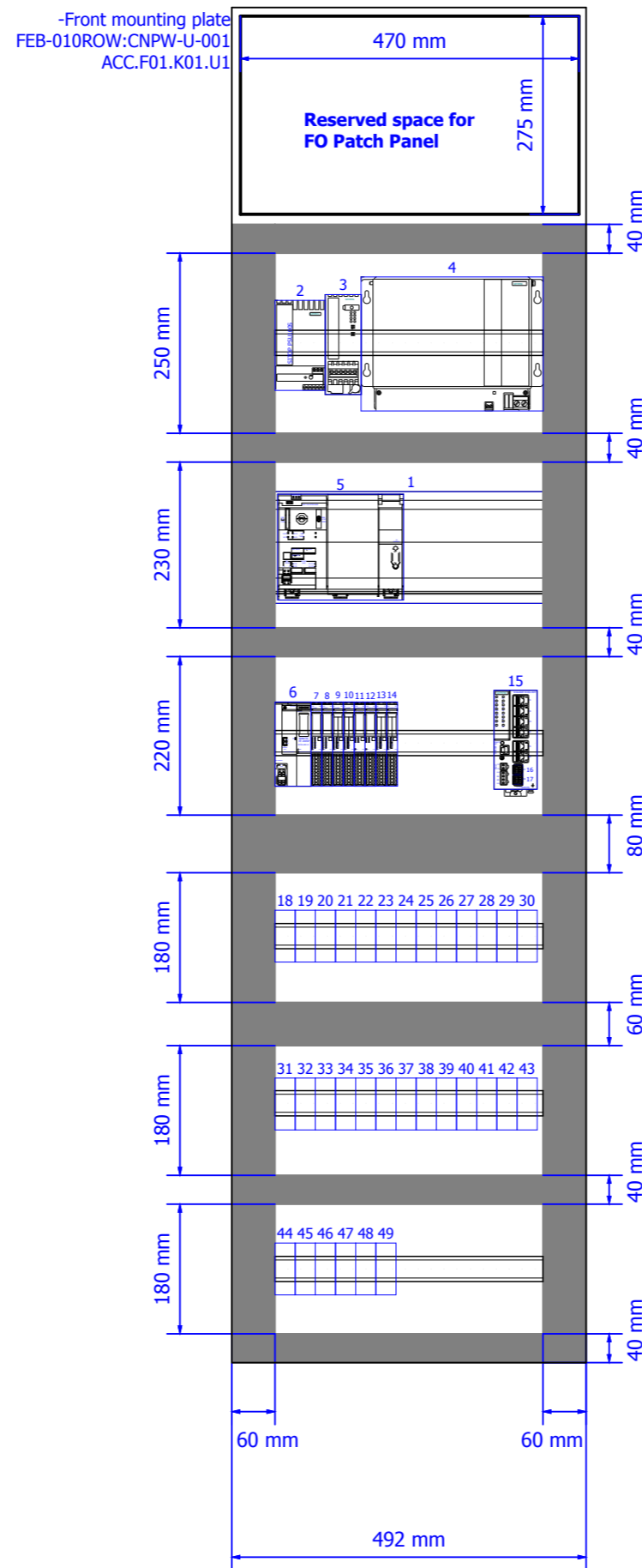
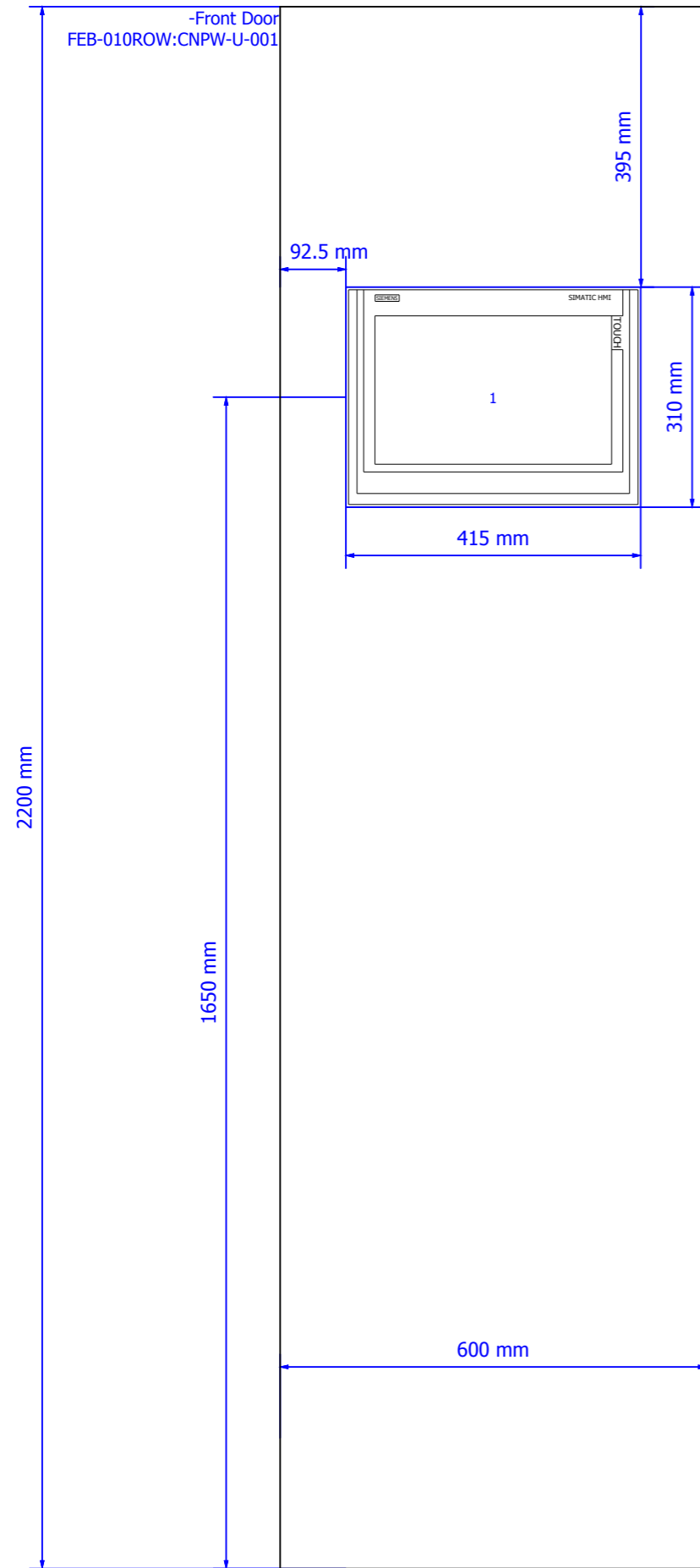
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Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.F01 +G01.090.1001-FQ1	1		TA1T6R8SR414 / ITM-00127453 - amGuard Pro		TA1T6R8SR414 / ITM-00127453 - amGuard Pro	
=ESS.ACC.F01.F01 +G01.090.1001-X1	10	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.F01 +G01.090.1001-X1	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.F01 +G01.090.1001-X1	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.F01 +G01.090.1001-FB1	1	Grounding relay	ED120-NC-120-2-31-BD		ED120-NC-120-2-31-BD	
=ESS.ACC.F01.F01 +G01.090.1001-WE1	1	Grounding rod	ACC1-8WHH-20-A-8		ACC1-8WHH-20-A-8	
=ESS.ACC.F01.F01 +G01.090.1001-MS	1	3SE6 magnetically operated switch (switching element)	3SE6604-2BA	Siemens	3SE6604-2BA	
=ESS.ACC.F01.F01 +G01.090.1001-MeS	1	position switch with separate actuator	3SE5112-1QV10	Siemens	3SE5112-1QV10	
=ESS.ACC.F01.F01 +G01.090.1001-XD1	1	ENCLOSURE FOR COMMAND DEVICES		Siemens	SIE.3SB3801-2AA3	
=ESS.ACC.F01.F01 +G01.090.1001-XD1-SF1	1	ILLUMINATED PUSHBUTTON, GREEN	3SU1152-0AB40-1BA0	Siemens	SIE.3SU1152-0AB40-1BA0	
=ESS.ACC.F01.F01 +G01.090.1001-XD2	1	ENCLOSURE FOR COMMAND DEVICES		Siemens	SIE.3SB3801-2AA3	
=ESS.ACC.F01.F01 +G01.090.1001-XD2-SF2	1	ILLUMINATED PUSHBUTTON, GREEN	3SU1152-0AB40-1BA0	Siemens	SIE.3SU1152-0AB40-1BA0	
=ESS.ACC.F01.F01 +G01.090.1001-XD3-SF3	1	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1051-1HB20-0AA0	Siemens	SIE.3SU1051-1HB20-0AA0	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
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				APPROVED BY	DATE	FUNCTION	PAGE SIZE
					DESIGN SITE		PAGE SCALE
					ESS		REV
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				 ePLAN electric 8 v2.5.4			



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



DRAWN BY ATZ	DATE
CHECKED BY	DATE
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DRAWING TITLE Accelerator PSS
PAGE TYPE Panel layout
FUNCTION RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001

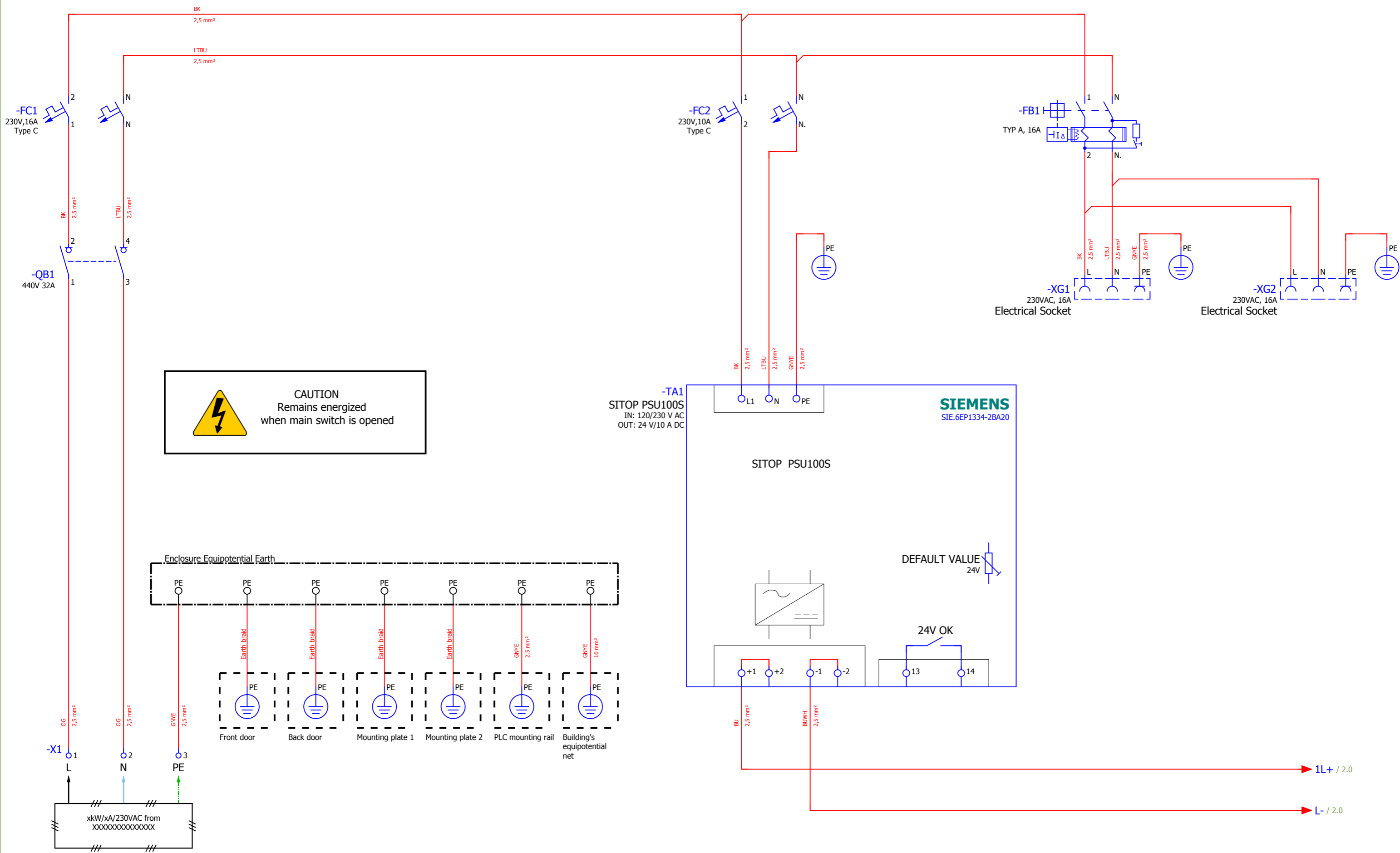
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Enclosure legend

F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
1	KF1	6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0	Siemens	SIMATIC S7-1500F CPU 1518F-4 PN/DP
2	TA1	6EP1334-2BA20	SIE.6EP1334-2BA20	Siemens	SITOP PSU100S
3	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	SITOP UPS1600
4	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	SITOP UPS1100 Battery Module
5	KF1	6ES7518-4FP00-0AB0	SIE.6ES7518-4FP00-0AB0	Siemens	SIMATIC S7-1500F CPU 1518F-4 PN/DP
6	KF2	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	Siemens	SIMATIC ET 200SP Profinet Interface Module ET200SP
7	KF3	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital input module F-DI 8x24VDC
8	KF4	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2B	Siemens	
9	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
10	KF6	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
11	KF7	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital output module F-DQ 4x24VDC/2A
12	KF8	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2B	Siemens	
13	KF9	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
14	KF10	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
15	XF1	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2	Siemens	SCALANCE XC206 2SFP Manageable Layer 2 IE-SWITCH
16	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
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19	K2	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
20	K3	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
21	K4	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
22	K5	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
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39	K22	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
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48	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
49	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Enclosure legend	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			DESIGN SITE	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001	Preliminary	A3	1	
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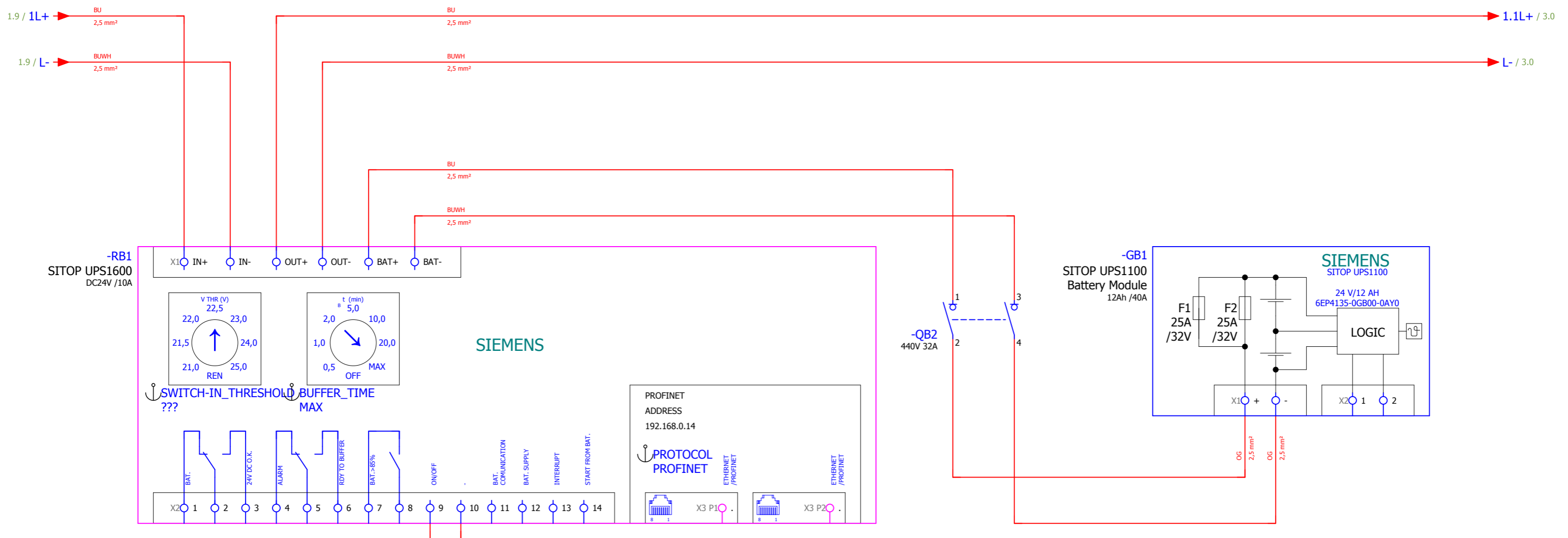
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PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001

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 **CAUTION**
Remains energized
when main switch is opened

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DESIGN SITE
ESS

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PAGE TYPE
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FEB-010ROW:CNPW-U-001**

LIFECYCLE LABEL
Preliminary

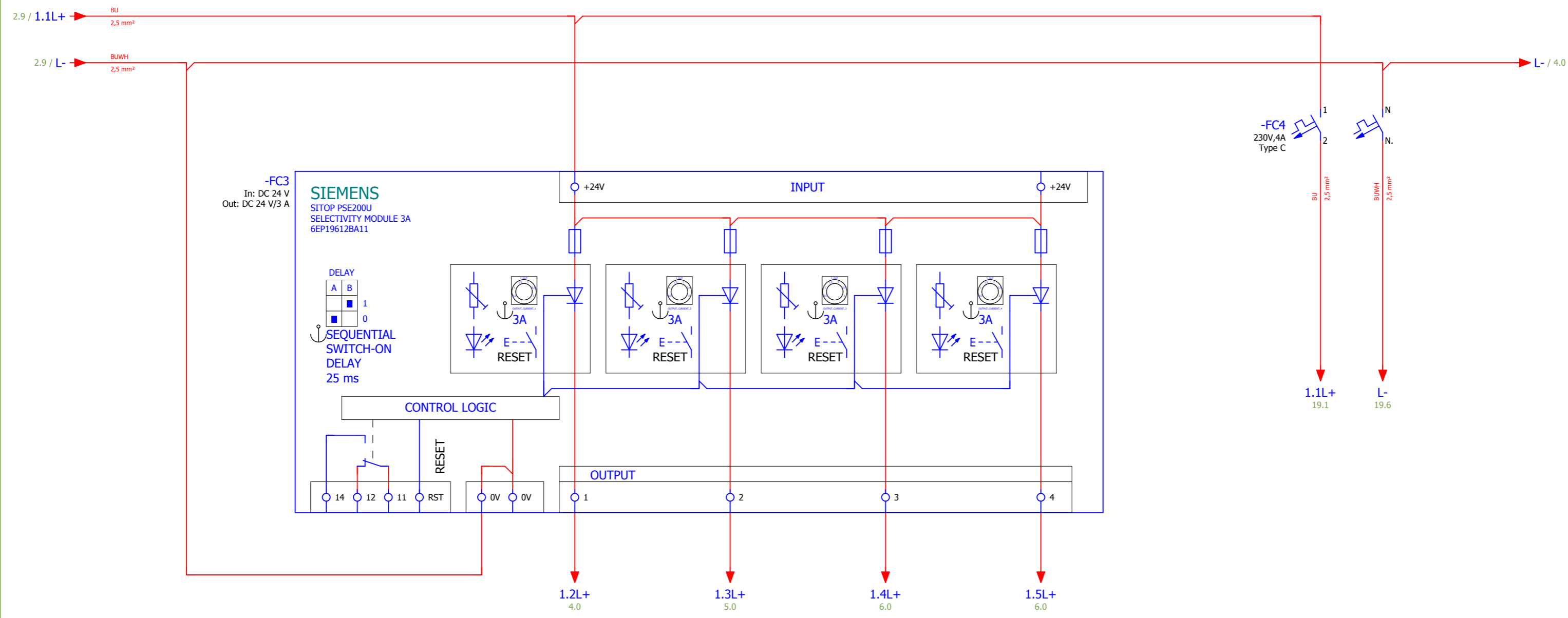
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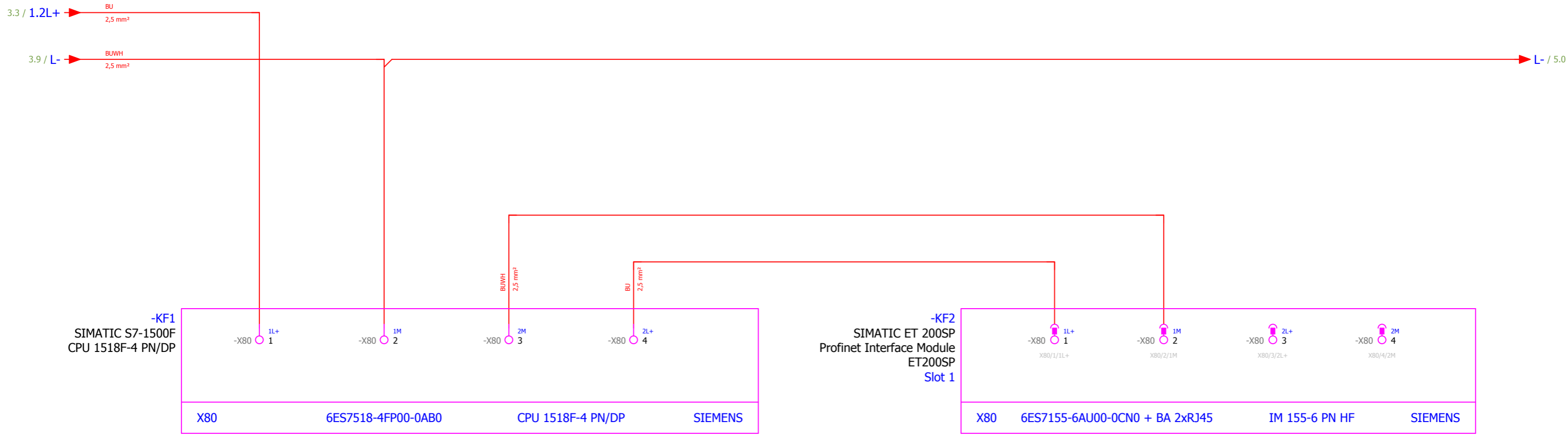
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Accelerator PSS

Schematic multi-line

RED SYSTEM PLC RACK
FEB-010ROW:CNPW-U-001

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FUNCTION
**RED SYSTEM PLC RACK
FEB-010ROW:CNPW-U-001**

DRAWING NUMBER (Doc)
ESS-0151602

LIFECYCLE LABEL
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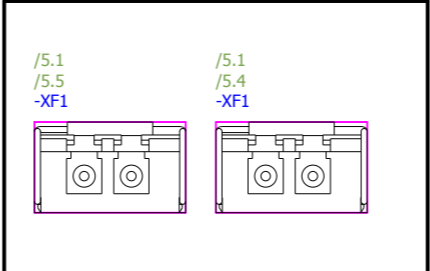
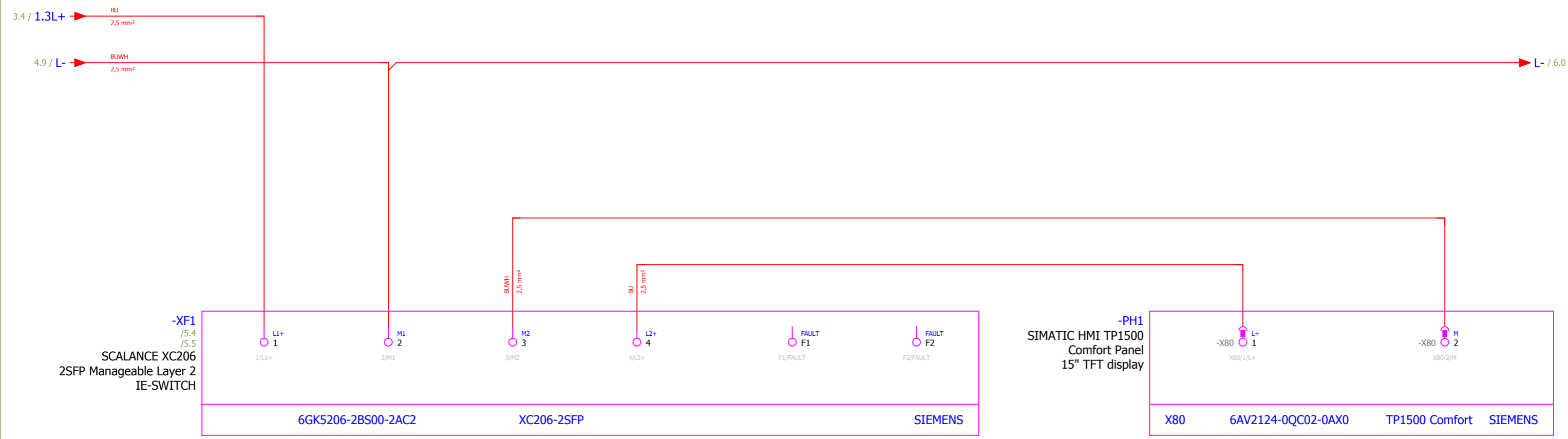
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**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

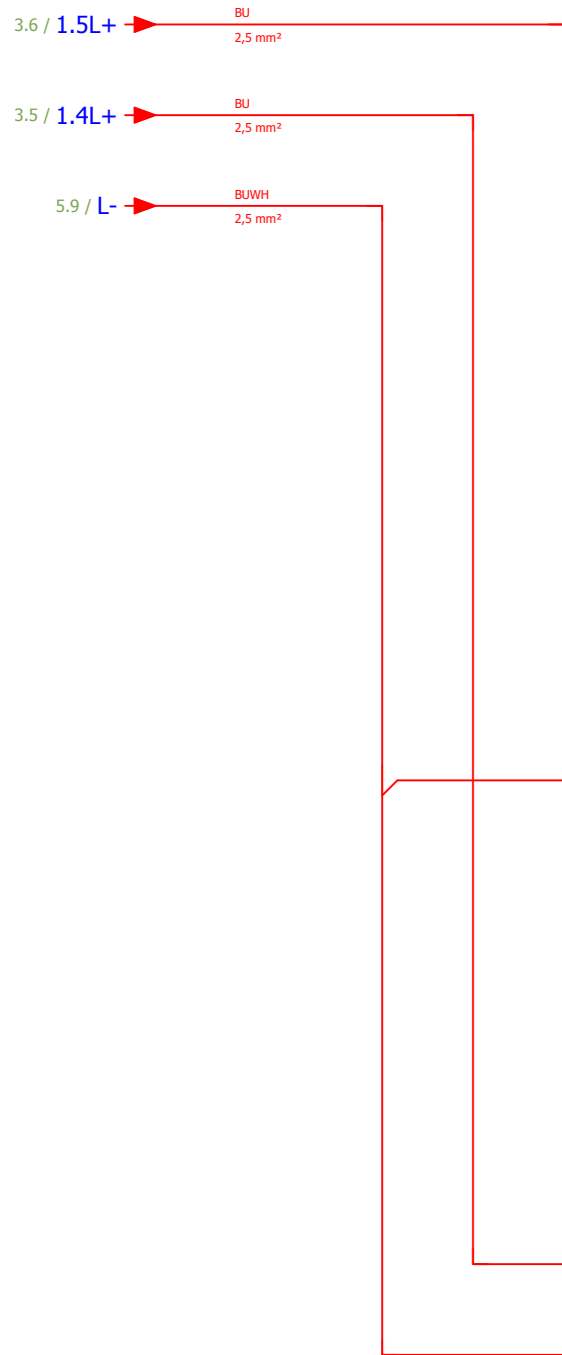
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-KF7
/13.2
SIMATIC ET 200SP
Digital output module
F-DQ 4x24VDC/2A
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D	F-DQ 4X24VDC/2A PM HF	SIEMENS
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L+ 24VDC M 0VDC

-KF3
/7.2
SIMATIC ET 200SP
Digital input module
F-DI 8x24VDC
Slot 2

6ES7136-6BA00-0CA0 + BU15-P16+A0+2D	F-DI 8x24VDC HF	SIEMENS
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L+ 24VDC M 0VDC

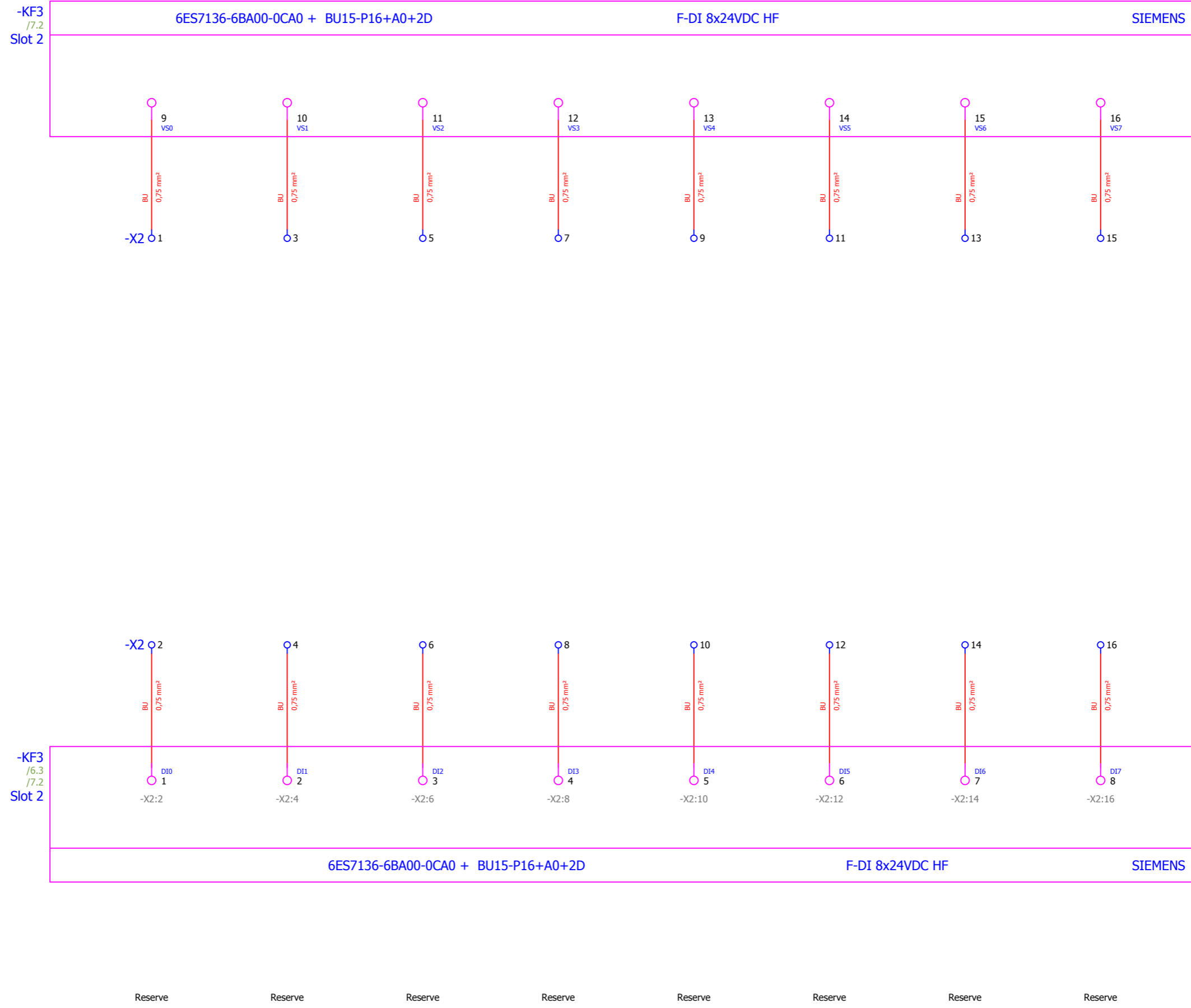
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FUNCTION RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001

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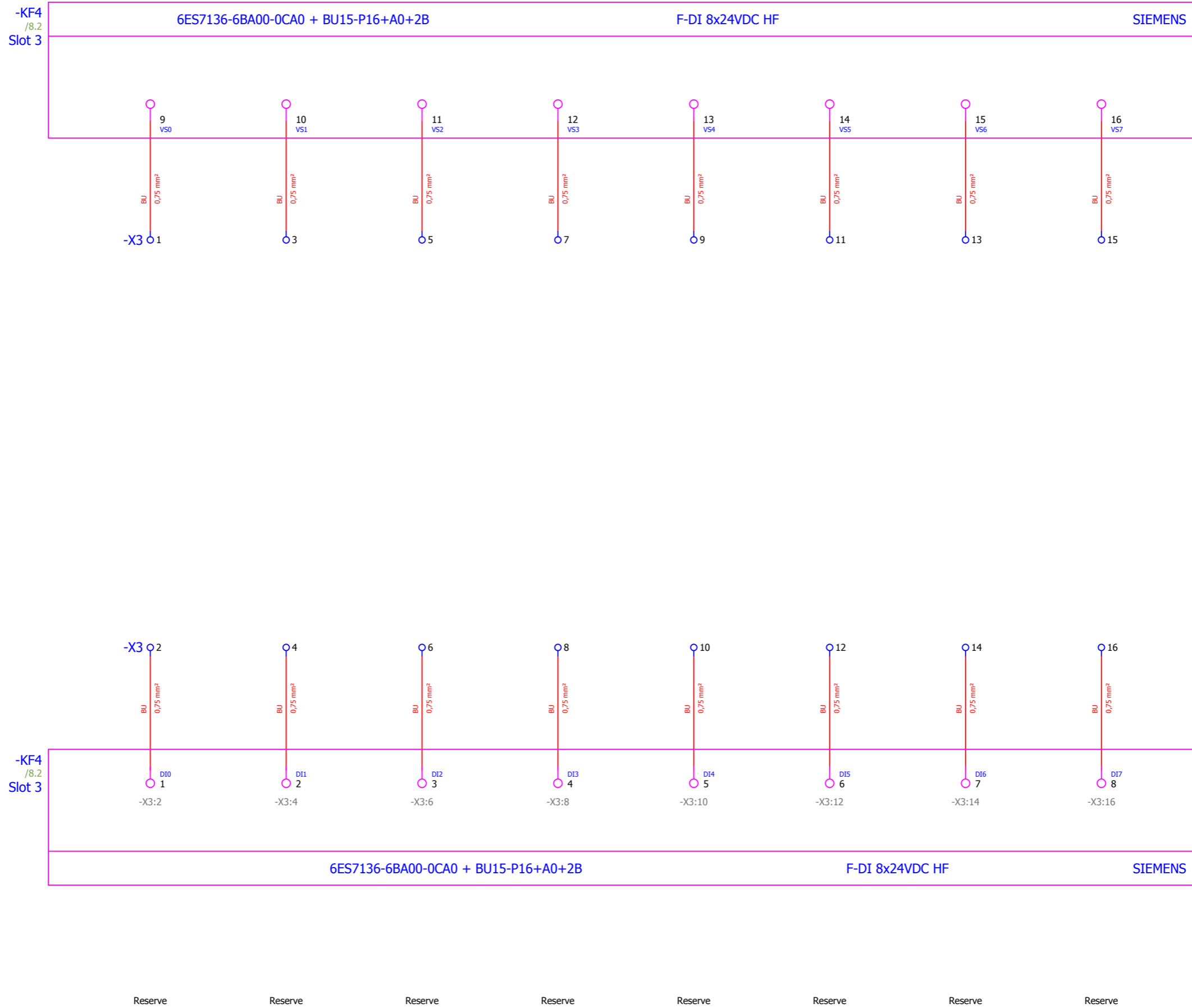
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FUNCTION RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001

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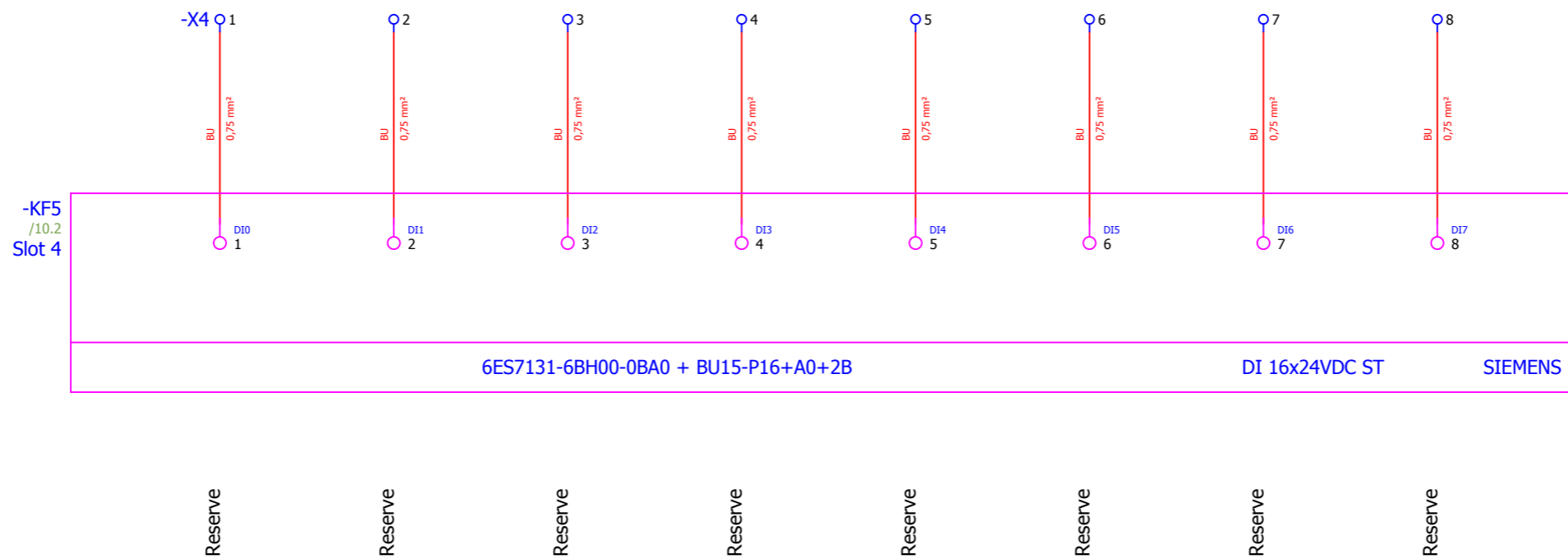
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FUNCTION RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001

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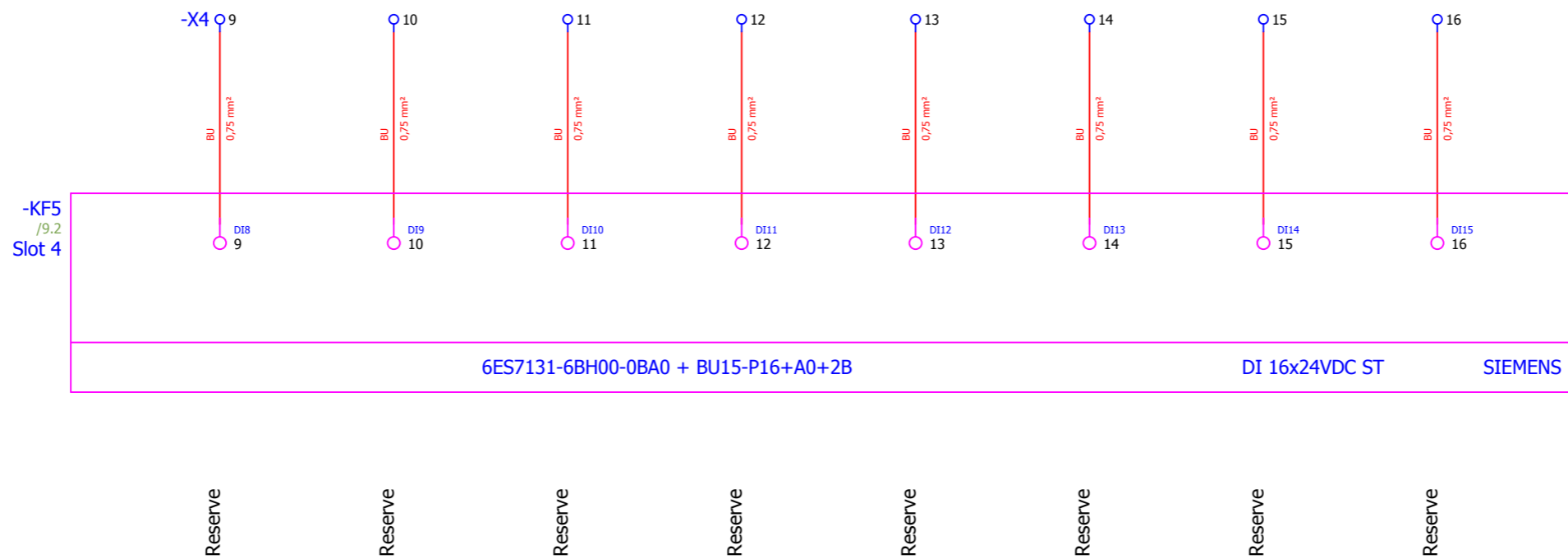
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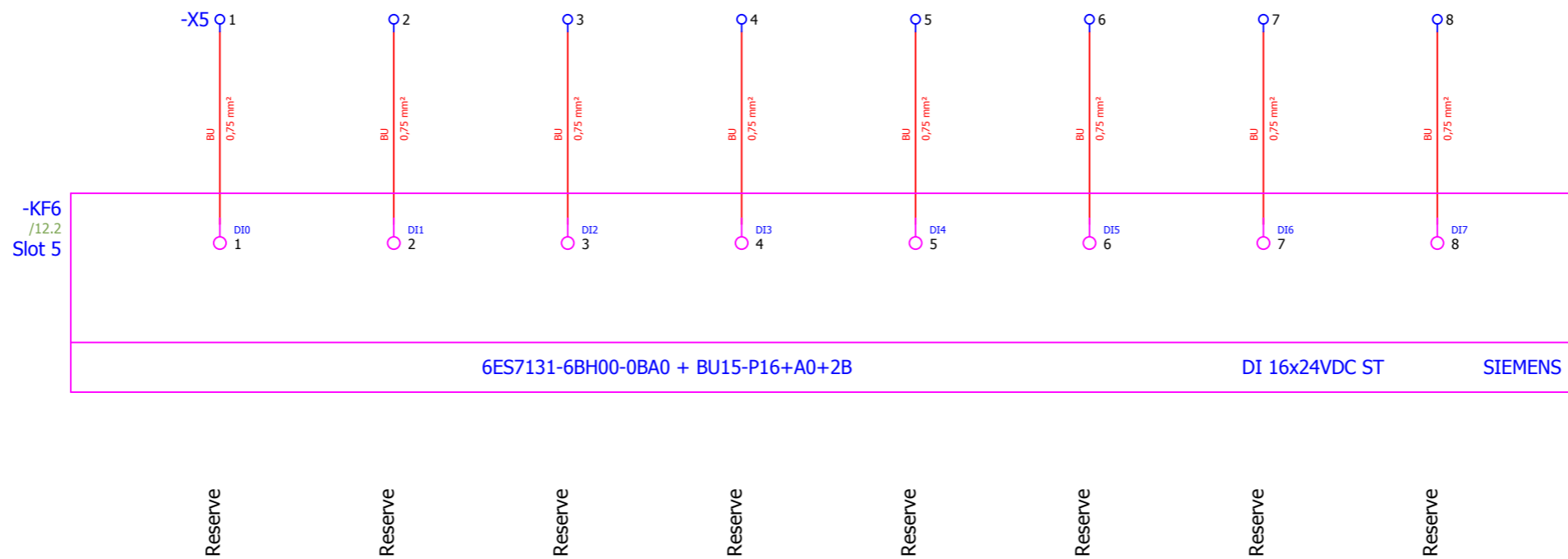
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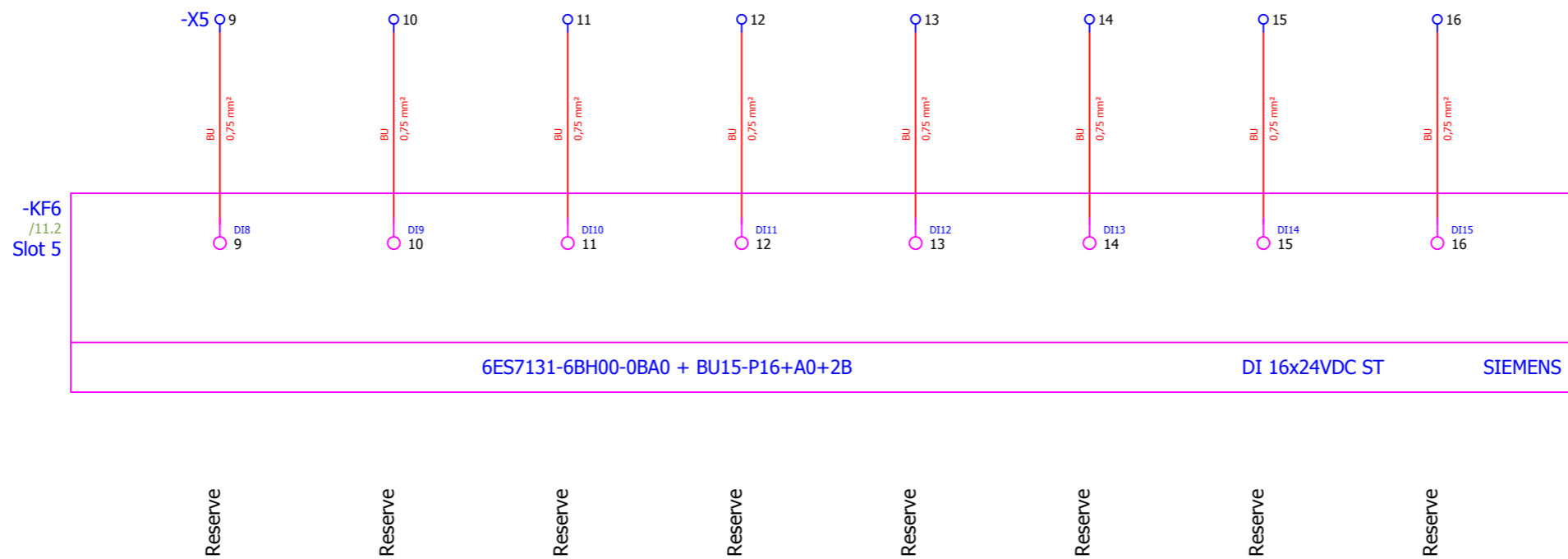
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Reserve

Reserve

Reserve

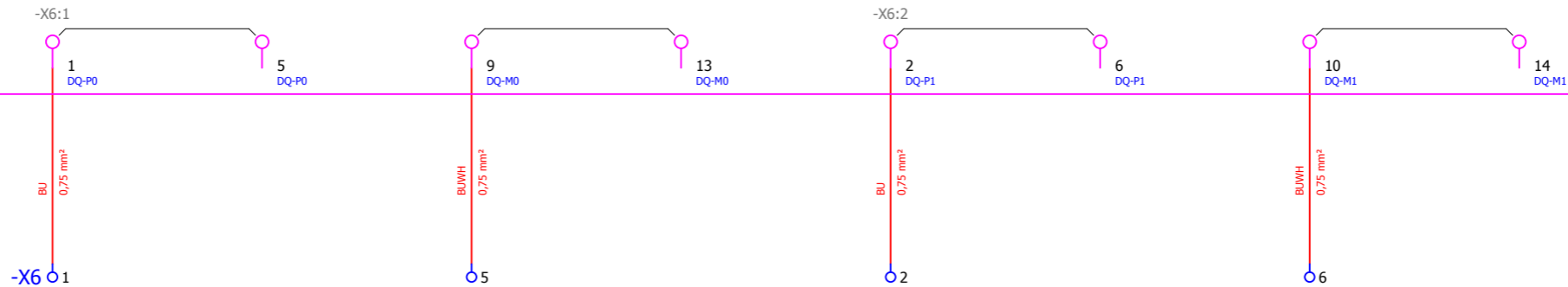
Reserve

-KF7
/6.3
/13.2
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D

F-DQ 4X24VDC/2A PM HF

SIEMENS



Reserve

Reserve

Reserve

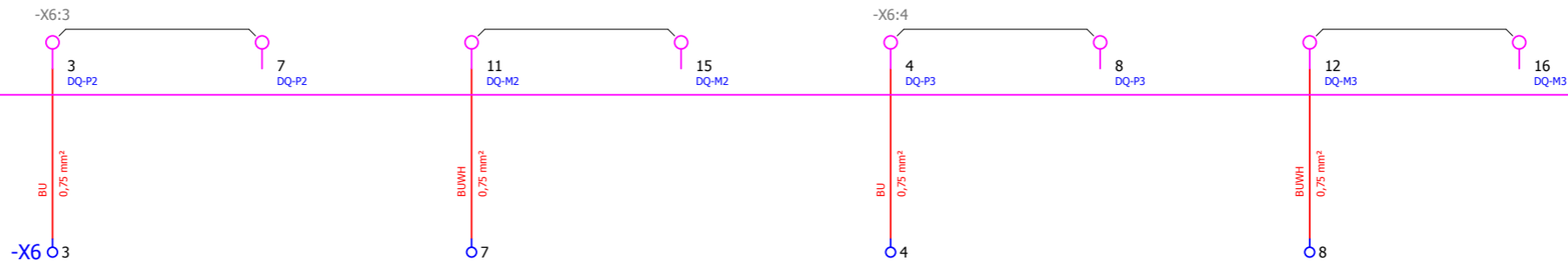
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/13.2
Slot 6

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F-DQ 4X24VDC/2A PM HF

SIEMENS



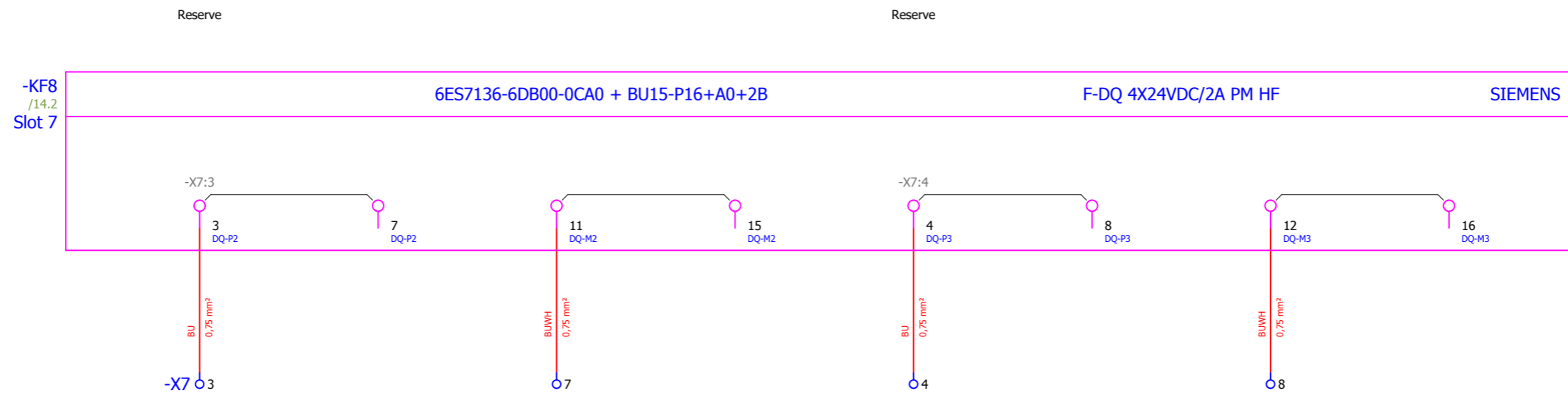
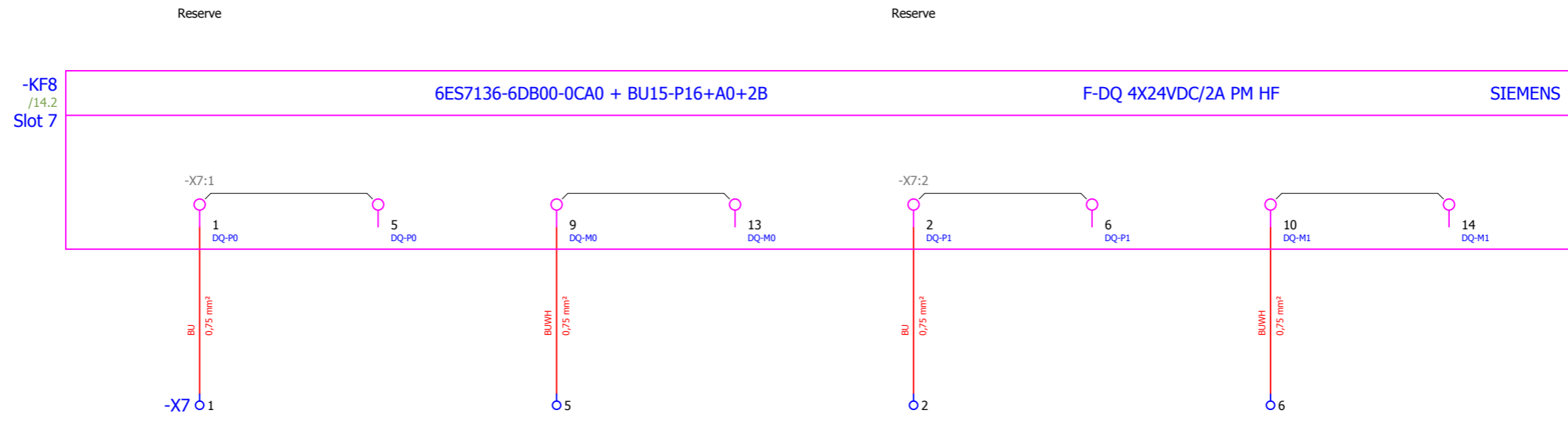
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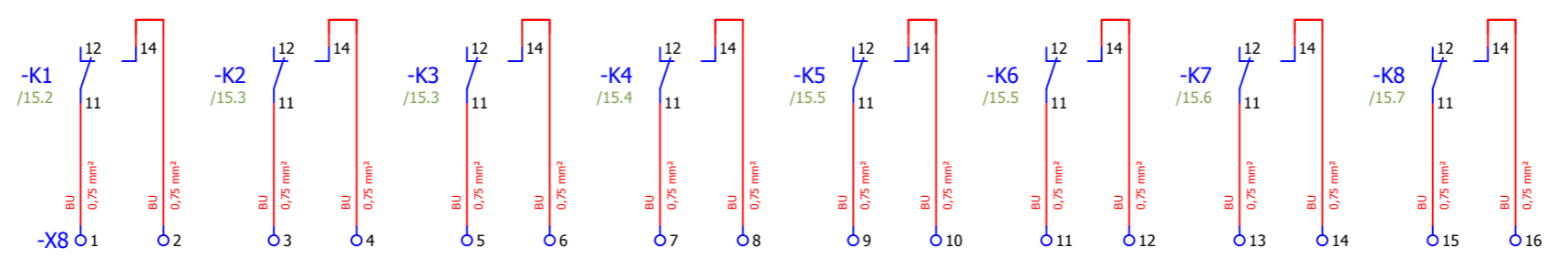
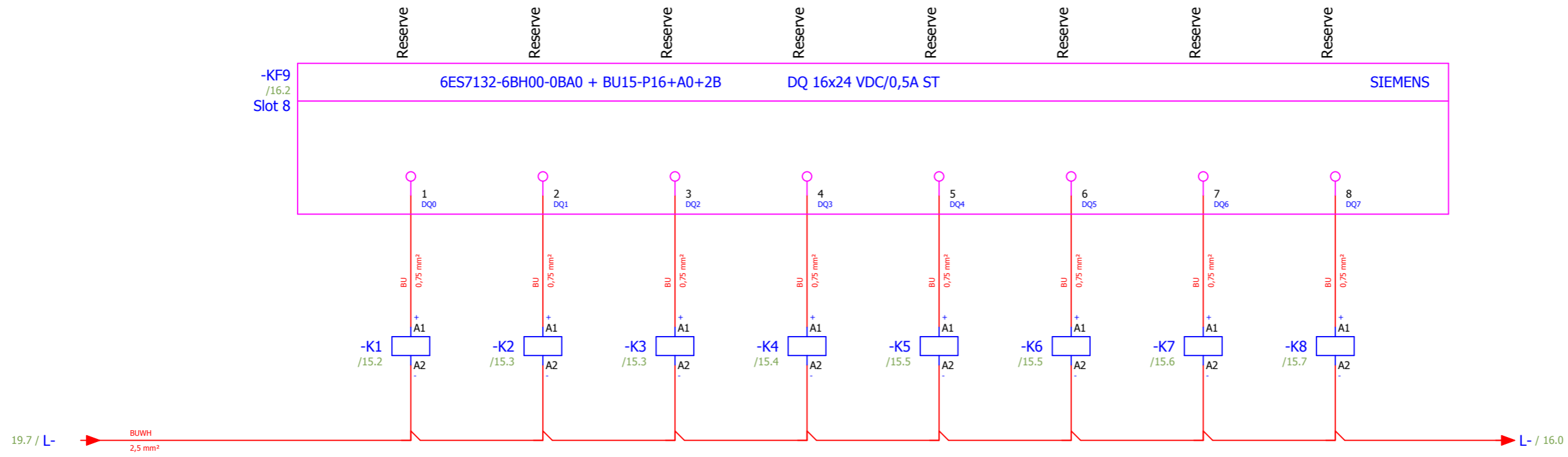
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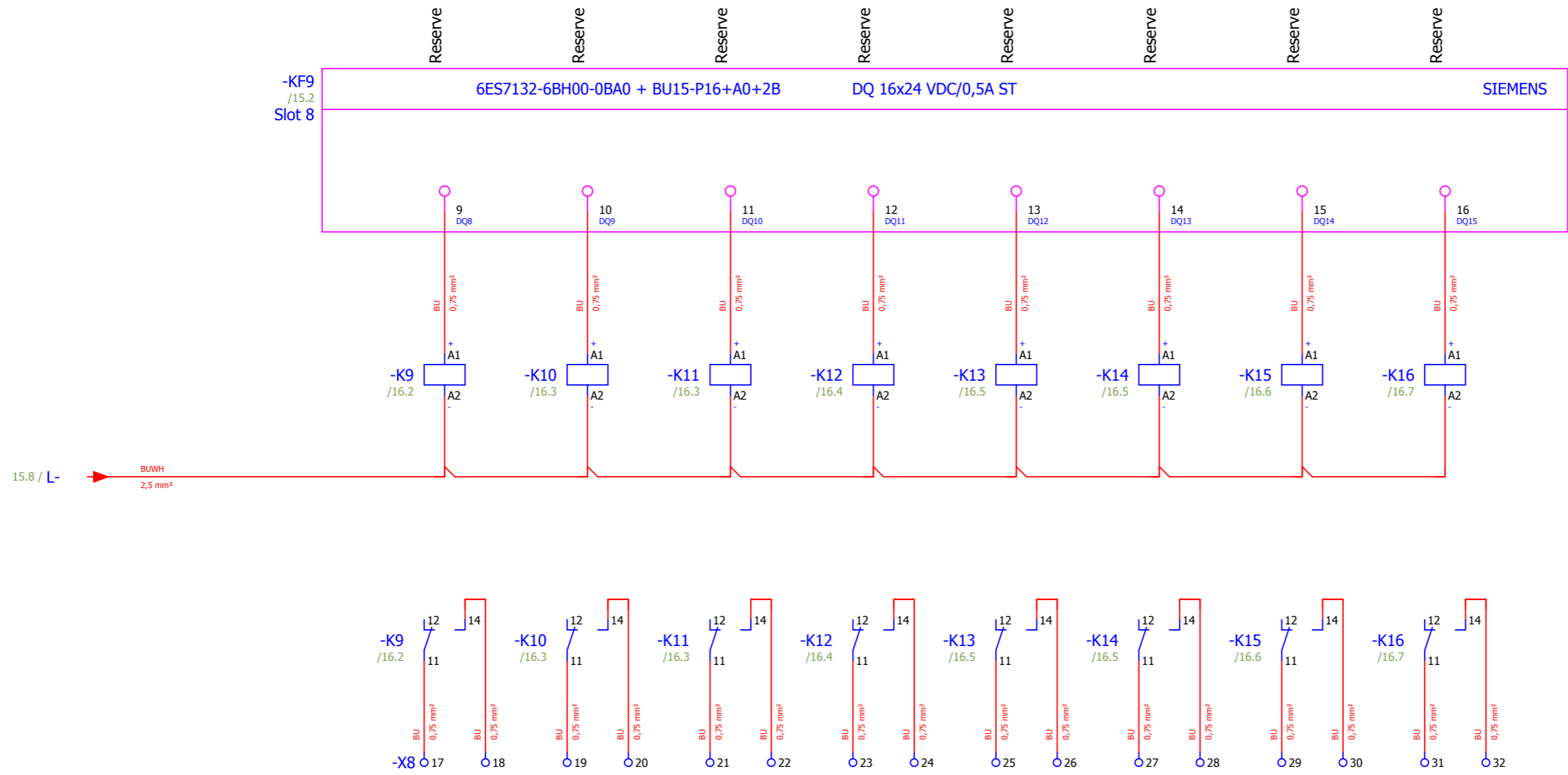
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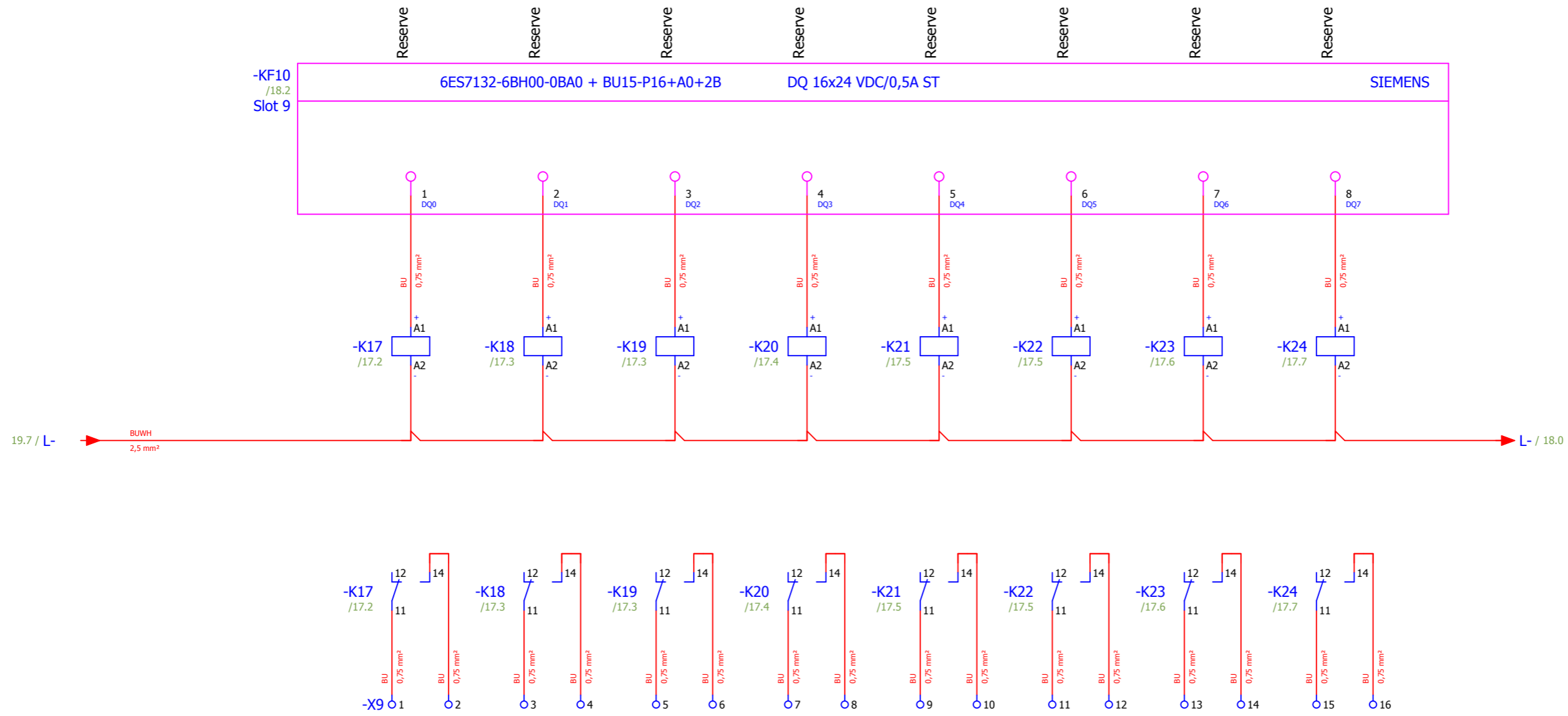
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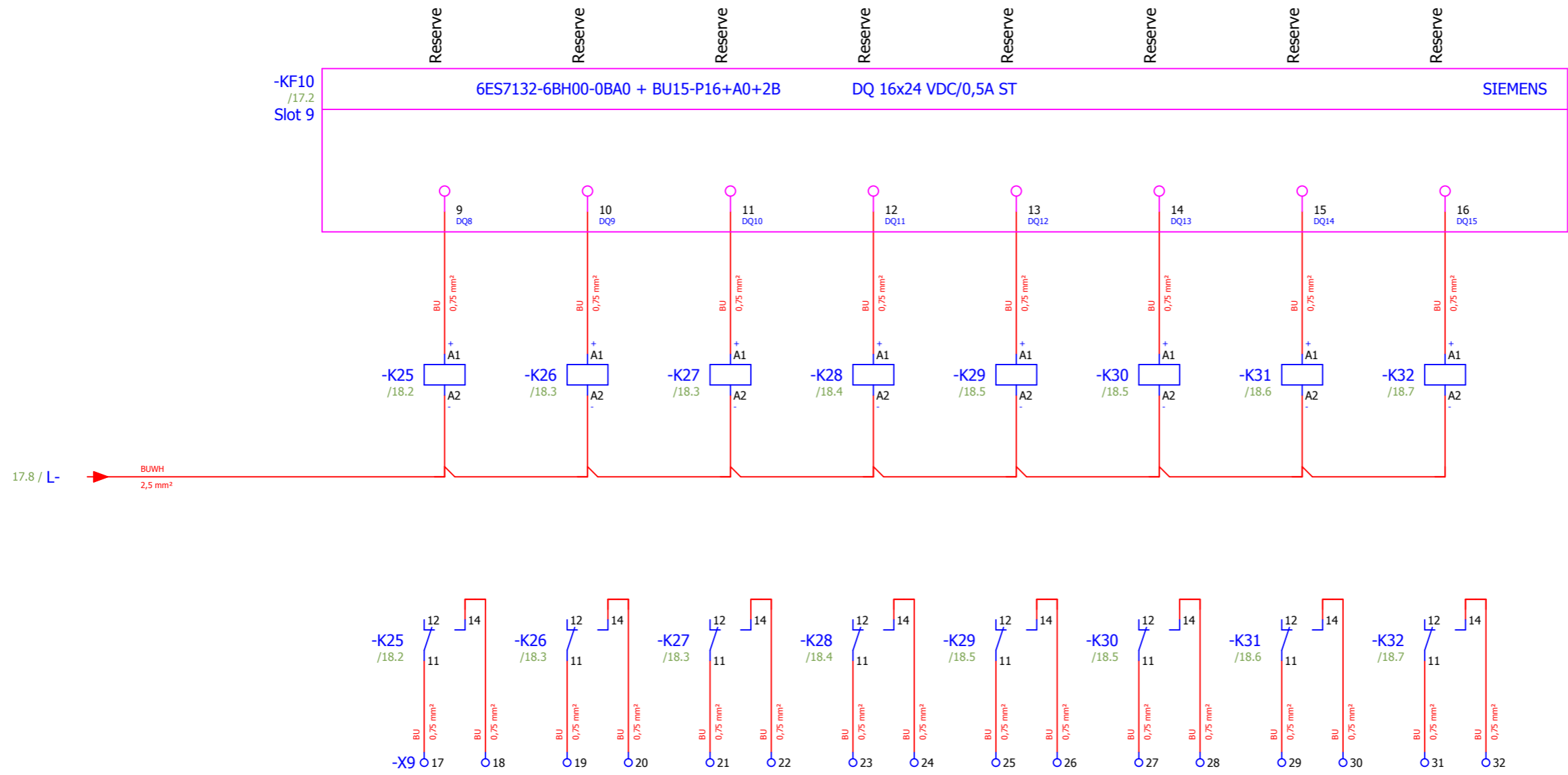
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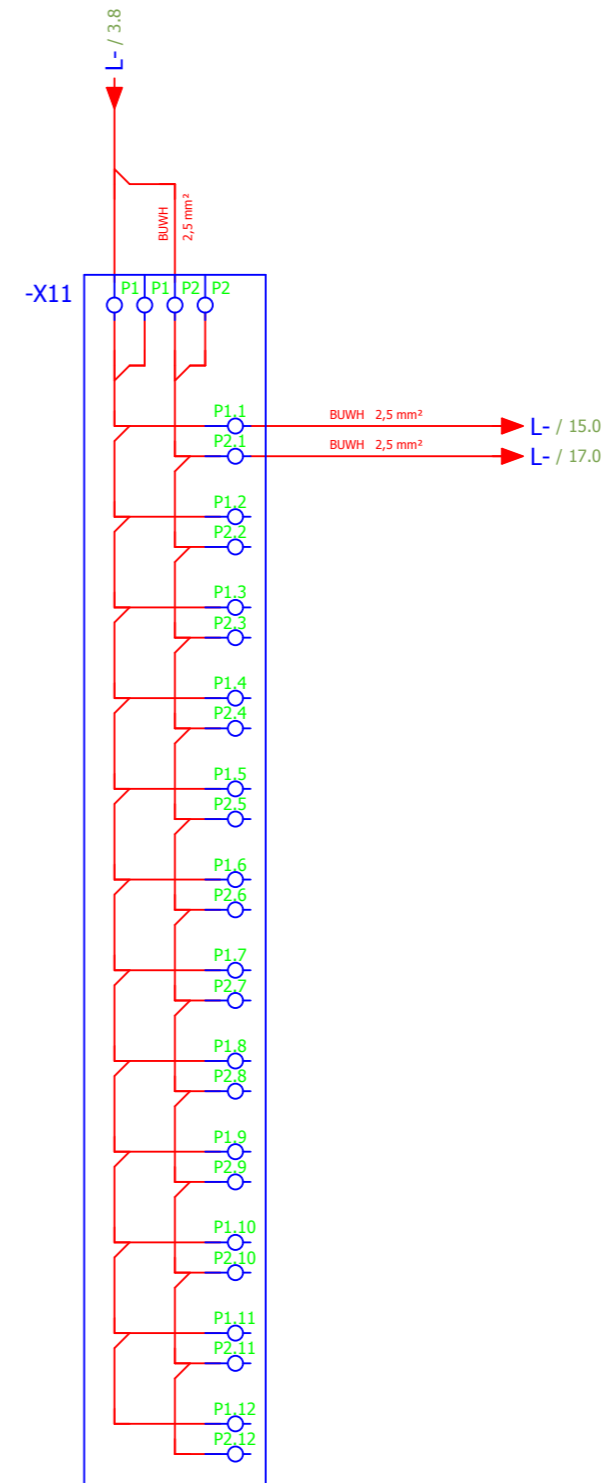
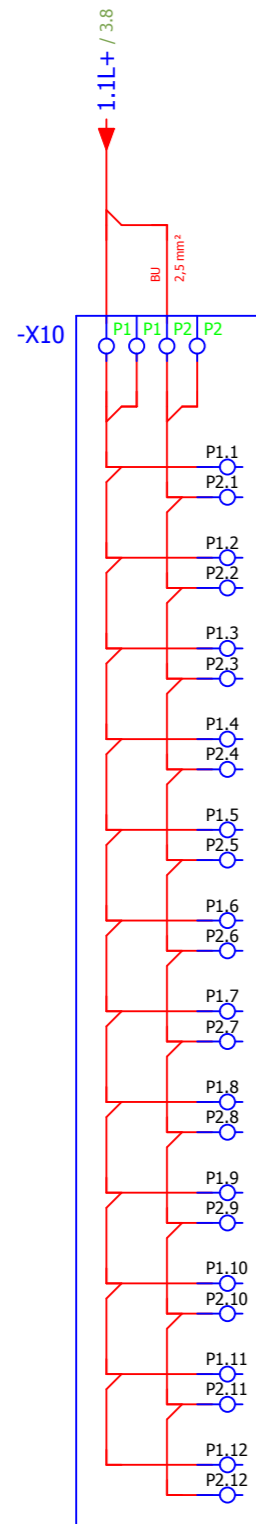
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FUNCTION
RED SYSTEM PLC RACK
FEB-010ROW:CNPW-U-001

DRAWING NUMBER (Doc)
ESS-0151602
LIFECYCLE LABEL
Preliminary
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Parts list

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=ESS.ACC.F01.K01.U1 -X1	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F01.K01.U1 -X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X2	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U1 -X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X6	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X6	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U1 -X6	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X7	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X7	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X8	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>		DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
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						CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						APPROVED BY	DATE	Parts list	Preliminary	A3	1	
							DESIGN SITE	FUNCTION	SHEET =ESS.ACC.F01.K01.U1&PC/1			
							ESS	RED SYSTEM PLC RACK FEB-010ROW:CNPW-U-001	NEXT 2			

Parts list

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=ESS.ACC.F01.K01.U1 -X8	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X9	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U1 -X9	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U1 -X10	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U1 -X11	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U1 -FB1	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens	SIE.5SV3311-6	
=ESS.ACC.F01.K01.U1 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F01.K01.U1 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F01.K01.U1 -FC3	1	SITOP PSE200U	6EP1961-2BA11	Siemens	SIE.6EP1961-2BA11	
=ESS.ACC.F01.K01.U1 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F01.K01.U1 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F01.K01.U1 -K1	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K2	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K3	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K4	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K5	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K6	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K7	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
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				CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
				APPROVED BY	DATE	FUNCTION	PAGE SIZE
					DESIGN SITE	RED SYSTEM PLC RACK	PAGE SCALE
					ESS	FEB-010ROW:CNPW-U-001	REV
							1
							3



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U1 -K8	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K9	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K10	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K11	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K12	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K13	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K14	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K15	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K16	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
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							NEXT 4



Parts list

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=ESS.ACC.F01.K01.U1 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U1 -KF1	1	CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0	Siemens	SIE.6ES7518-4FP00-0AB0	
=ESS.ACC.F01.K01.U1 -KF1	1	MOUNTING RAIL 482MM (19")	6ES7590-1AE80-0AA0	Siemens	SIE.6ES7590-1AE80-0AA0	
=ESS.ACC.F01.K01.U1 -KF2	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	
=ESS.ACC.F01.K01.U1 -KF3	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U1 -KF4	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U1 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U1 -KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U1 -KF7	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U1 -KF8	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U1 -KF9	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U1 -KF10	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	

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						Accelerator PSS	ESS-0151602
				CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
				APPROVED BY	DATE	FUNCTION	PAGE SIZE
					DESIGN SITE	RED SYSTEM PLC RACK	PAGE SCALE
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							NEXT 5



Parts list

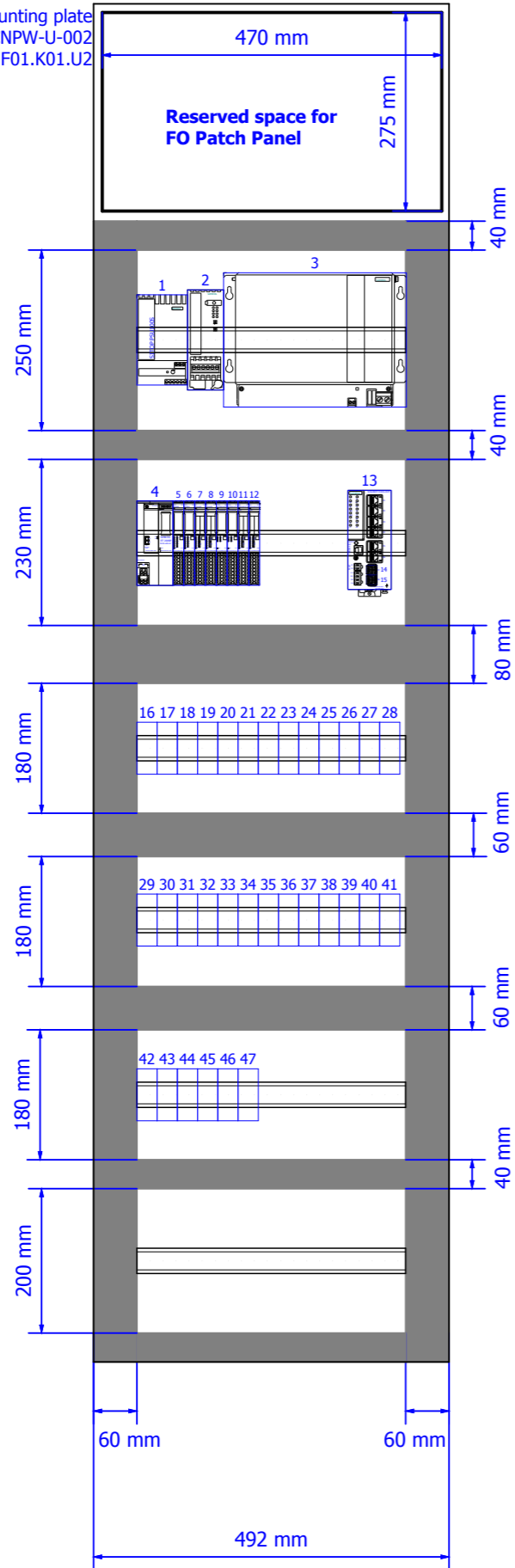
ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U1 -PH1	1	TP1500 COMFORT	6AV2124-0QC02-0AX0	Siemens	SIE.6AV2124-0QC02-0AX0	
=ESS.ACC.F01.K01.U1 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F01.K01.U1 -QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F01.K01.U1 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F01.K01.U1 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	
=ESS.ACC.F01.K01.U1 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F01.K01.U1 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F01.K01.U1 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F01.K01.U1 -XG2	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	

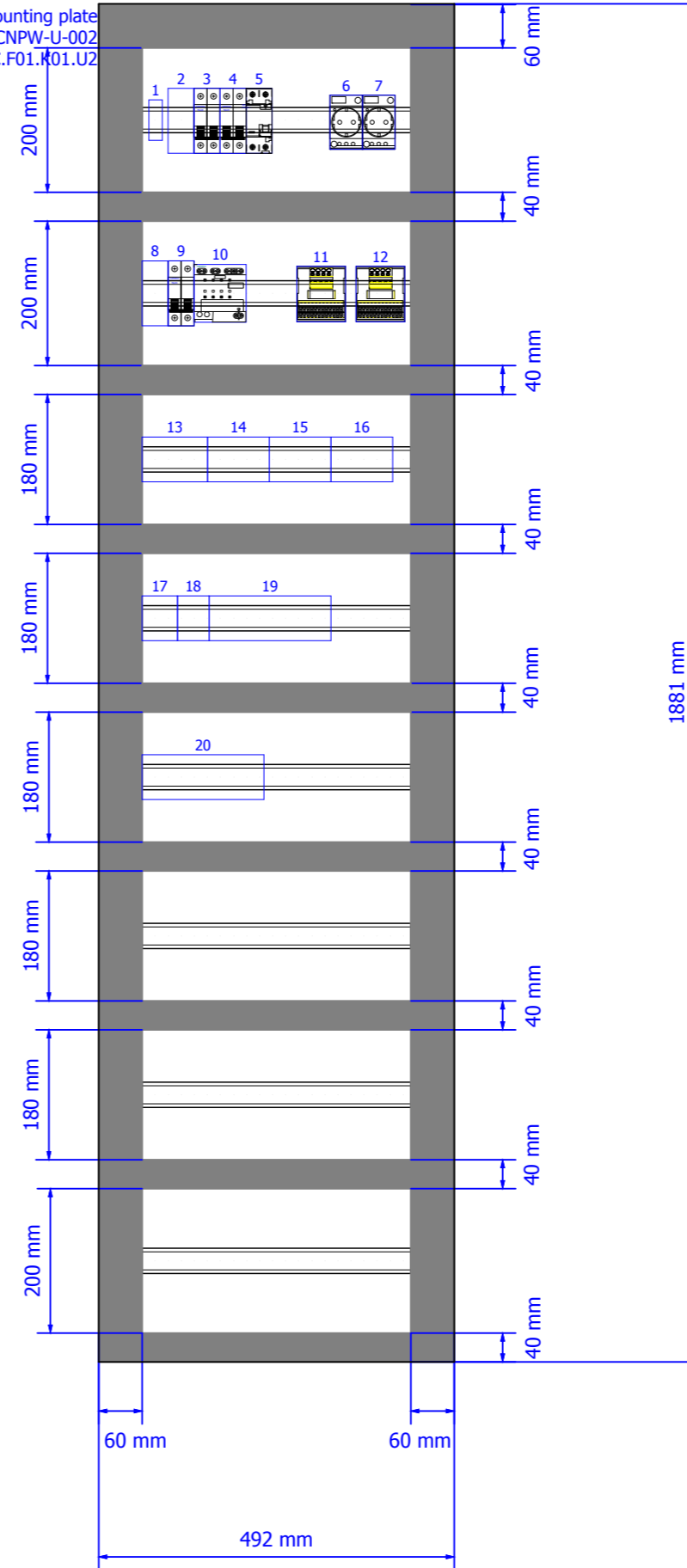
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				CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
						Parts list	Preliminary
				APPROVED BY	DATE	FUNCTION	PAGE SIZE
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						FEB-010ROW:CNPW-U-001	1
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							NEXT
							=.ACC.F01.K01.U2&LU/1



-Front mounting plate
FEB-010ROW:CNPW-U-002
ACC.F01.K01.U2



-Back mounting plate
FEB-010ROW:CNPW-U-002
ACC.F01.K01.U2



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Panel layout
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

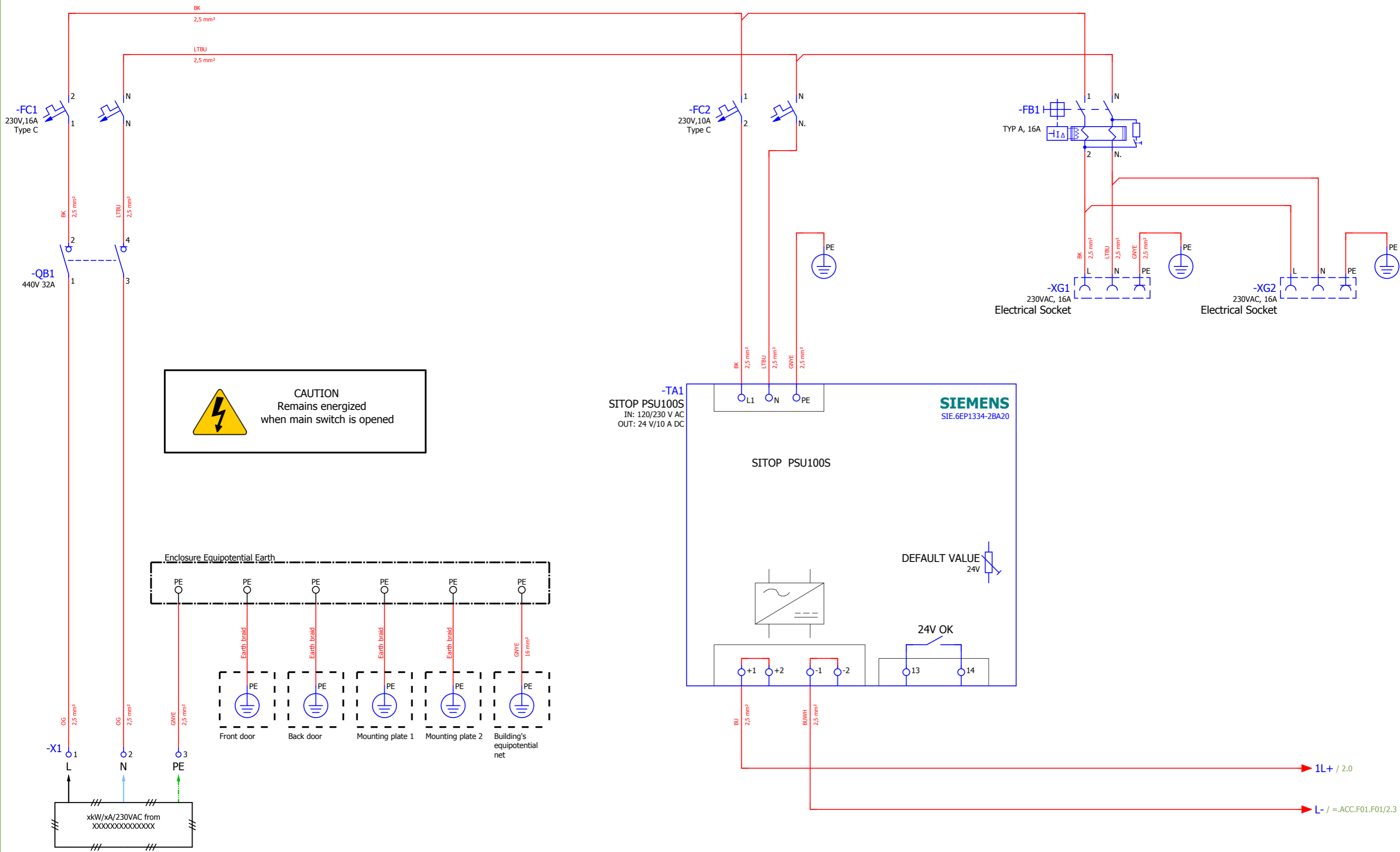
DRAWING NUMBER (Doc) ESS-0151602	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 9	REV
SHEET =ESS.ACC.F01.K01.U2&LU/1				
NEXT 2				

Enclosure legend

F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
1	TA1	6EP1334-2BA20	SIE.6EP1334-2BA20	Siemens	SITOP PSU100S
2	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	SITOP UPS1600
3	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	SITOP UPS1100 Battery Module
4	KF1	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	Siemens	SIMATIC ET 200SP Profinet Interface Module ET200SP
5	KF2	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital input module F-DI 8x24VDC
6	KF3	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2B	Siemens	
7	KF4	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
8	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
9	KF6	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital output module F-DQ 4x24VDC/2A
10	KF7	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2B	Siemens	
11	KF8	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
12	KF9	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
13	XF1	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2	Siemens	SCALANCE XC206 2SFP Manageable Layer 2 IE-SWITCH
14	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
15	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
16	K1	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
17	K2	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
18	K3	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
19	K4	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
20	K5	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
21	K6	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
22	K7	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
23	K8	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
24	K9	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
25	K10	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
26	K11	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
27	K12	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
28	K13	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
29	K14	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
30	K15	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
31	K16	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
32	K17	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
33	K18	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
34	K19	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
35	K20	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
36	K21	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
37	K22	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
38	K23	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
39	K24	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
40	K25	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
41	K26	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
42	K27	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
43	K28	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
44	K29	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
45	K30	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
46	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
47	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Enclosure legend	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			DESIGN SITE	RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002	Preliminary	A3	1	
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							ESS	NEXT &FS/1			



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DRAWING TITLE
Accelerator PSS

PAGE TYPE
Schematic multi-line

FUNCTION
**RED SYSTEM RIO RACK 1
FEB-010ROW: CNPW-U-002**

DRAWING NUMBER (Doc)
ESS-0151602

LIFECYCLE LABEL
Preliminary

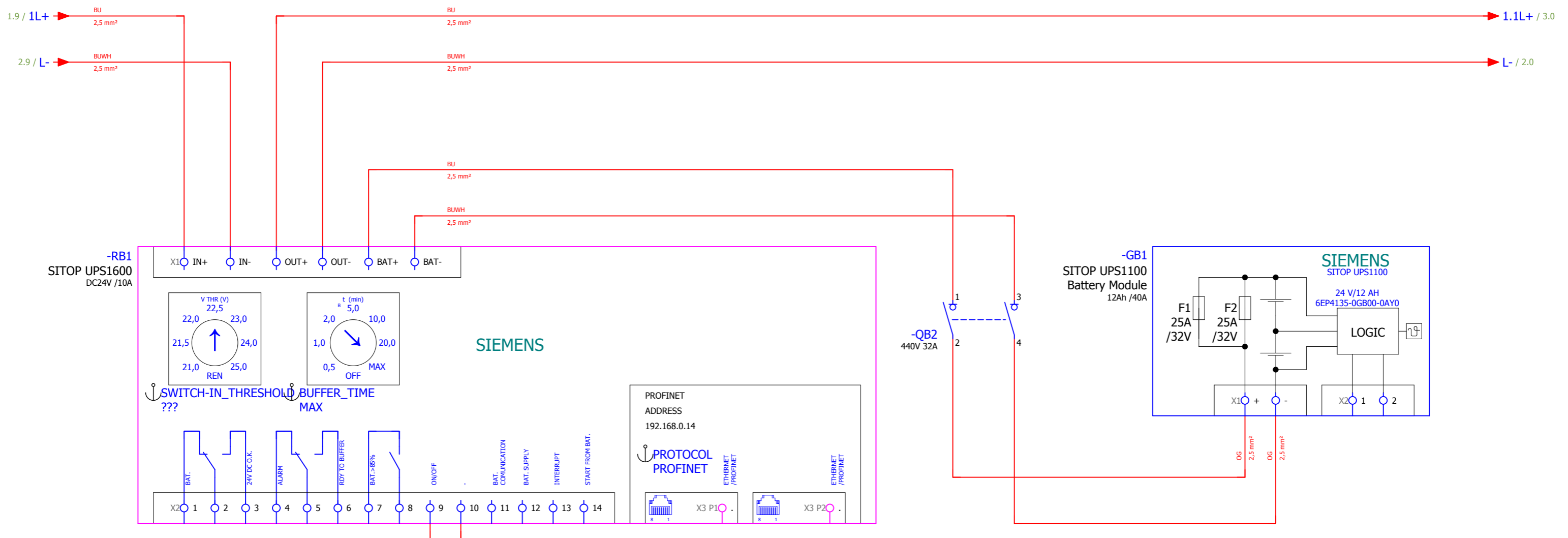
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A3

PAGE SCALE
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REV
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NEXT **2**



CAUTION
Remains energized
when main switch is opened

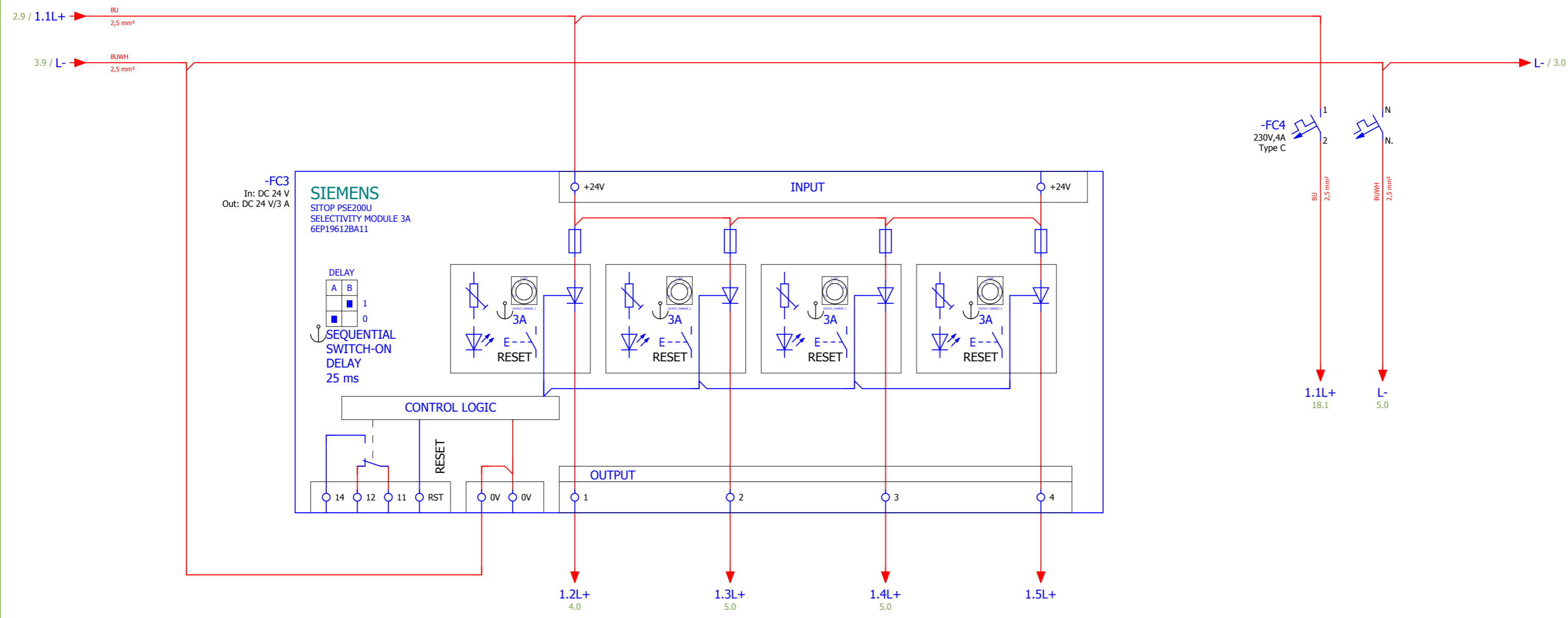
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CHECKED BY	DATE
APPROVED BY	DATE
DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

DRAWING NUMBER (Doc) ESS-0151602			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DESIGN SITE
ESS

ePLAN®
electric8 v2.5.4

DATE

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DRAWING NUMBER (Doc)
ESS-0151602

PAGE TYPE
Schematic multi-line

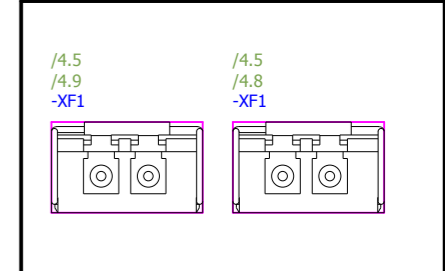
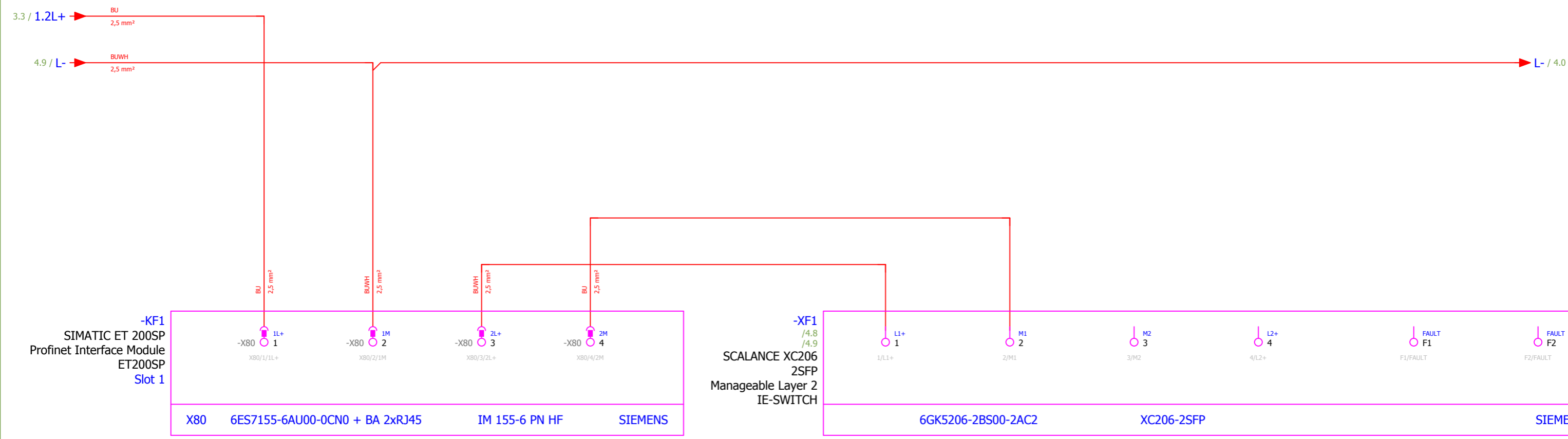
FUNCTION
**RED SYSTEM RIO RACK 1
FEB-010ROW:CNPW-U-002**

LIFECYCLE LABEL
Preliminary

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NEXT **4**

PAGE SIZE	PAGE SCALE	REV
A3	1	



SFP pluggable transceiver for media modules 100MBIT/S LC-PORT OPTICAL

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE

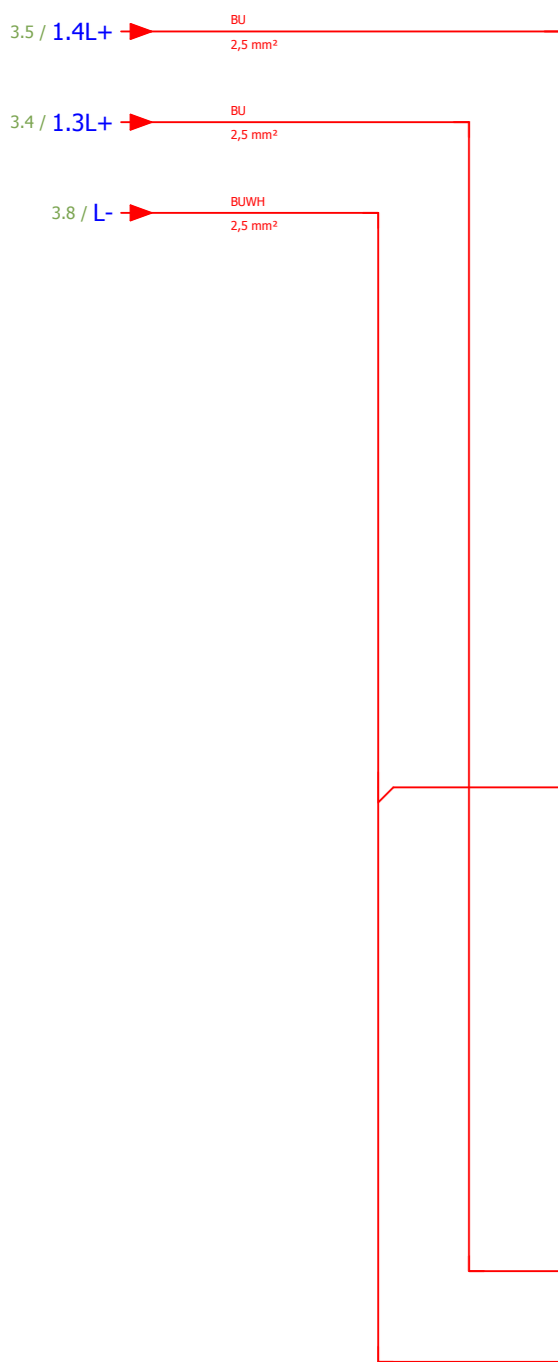


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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

DRAWING NUMBER (Doc) ESS-0151602			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
SHEET =ESS.ACC.F01.K01.U2&FS/4			
NEXT 5			





-KF6
/12.2
SIMATIC ET 200SP
Digital output module
F-DQ 4x24VDC/2A
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D	F-DQ 4X24VDC/2A PM HF	SIEMENS
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L+ 24VDC M 0VDC

-KF2
/6.2
SIMATIC ET 200SP
Digital input module
F-DI 8x24VDC
Slot 2

6ES7136-6BA00-0CA0 + BU15-P16+A0+2D	F-DI 8x24VDC HF	SIEMENS
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L+ 24VDC M 0VDC

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



DRAWN BY ATZ	DATE
CHECKED BY	DATE
APPROVED BY	DATE
DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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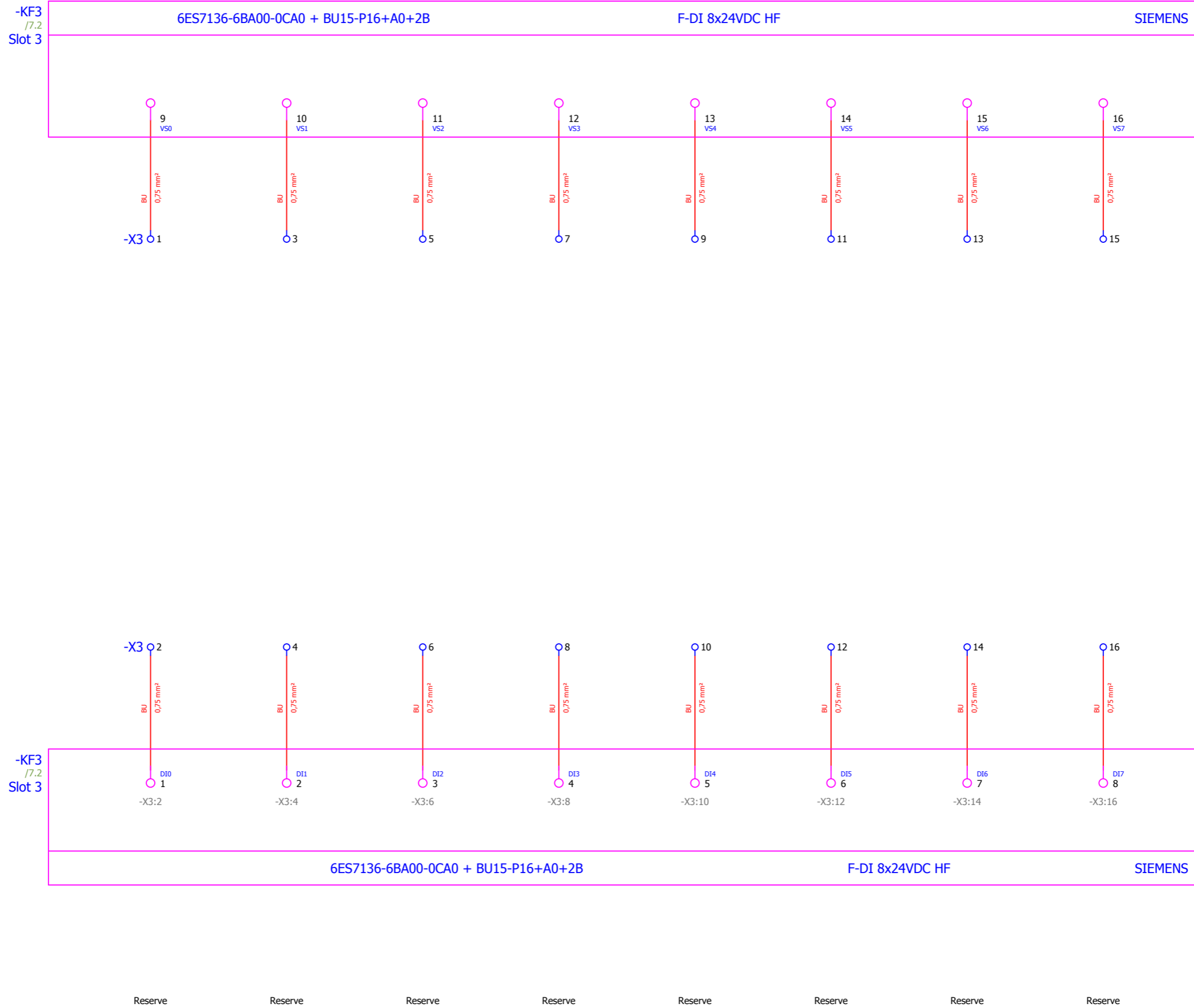
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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ISO 16016

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DRAWING TITLE

Accelerator PSS

PAGE TYPE

Schematic multi-line

FUNCTION

RED SYSTEM RIO RACK 1

FEB-010ROW:CNPW-U-002

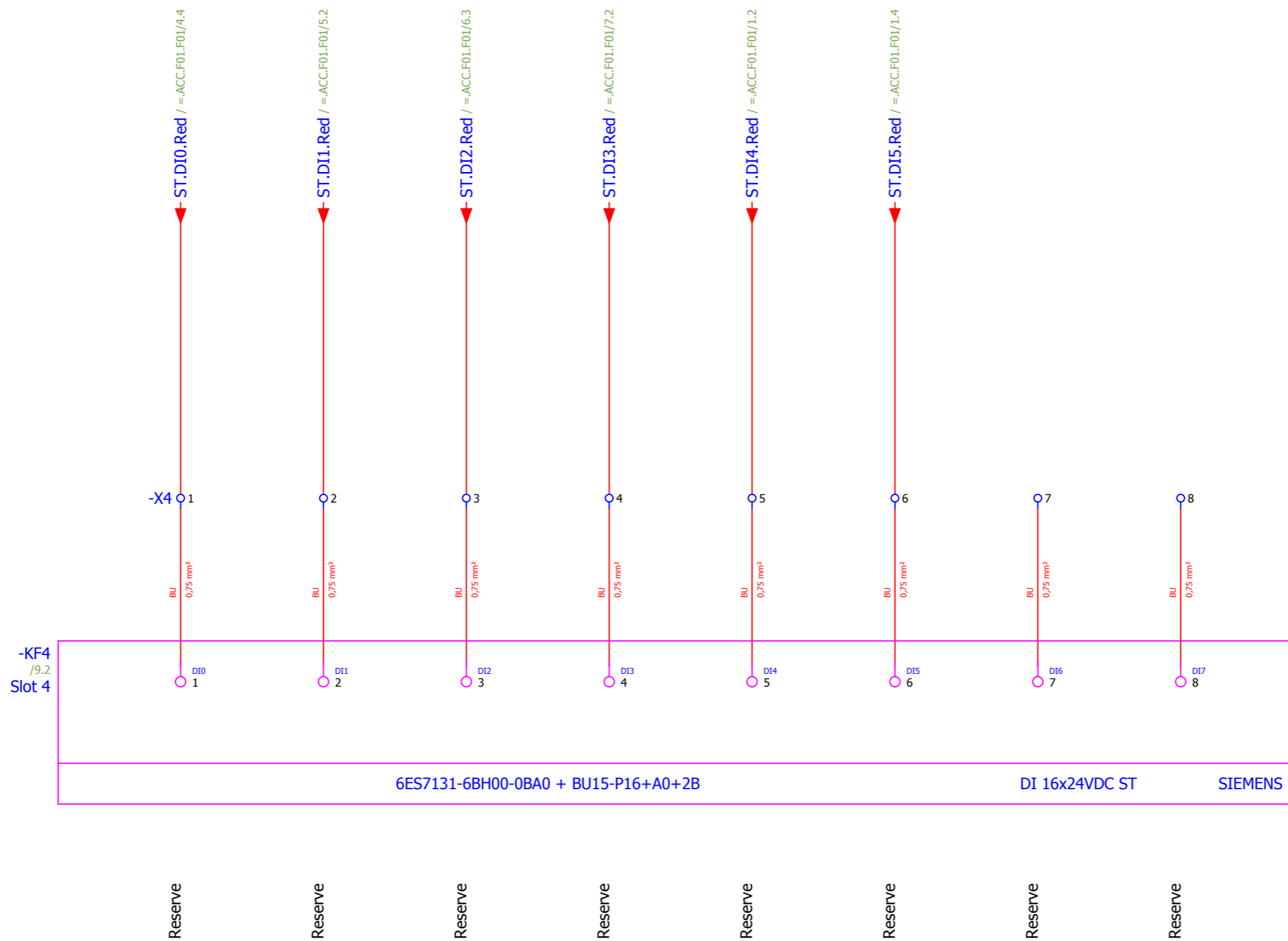
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ESS-0151602

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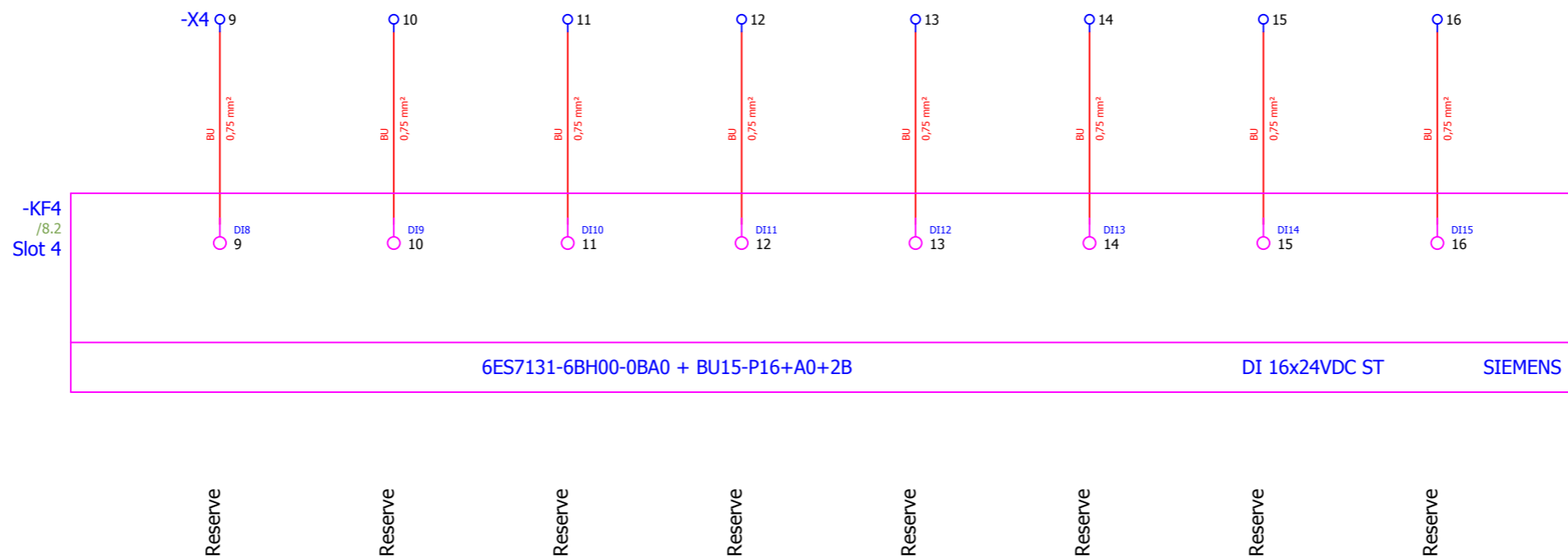
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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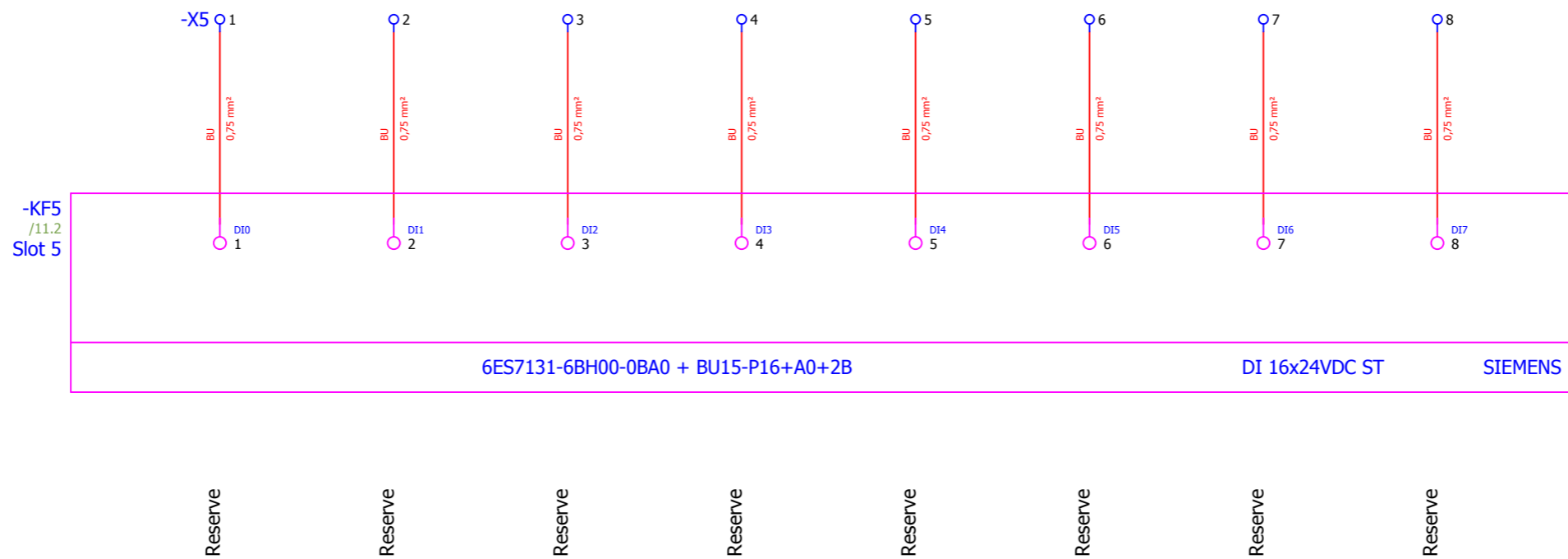
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PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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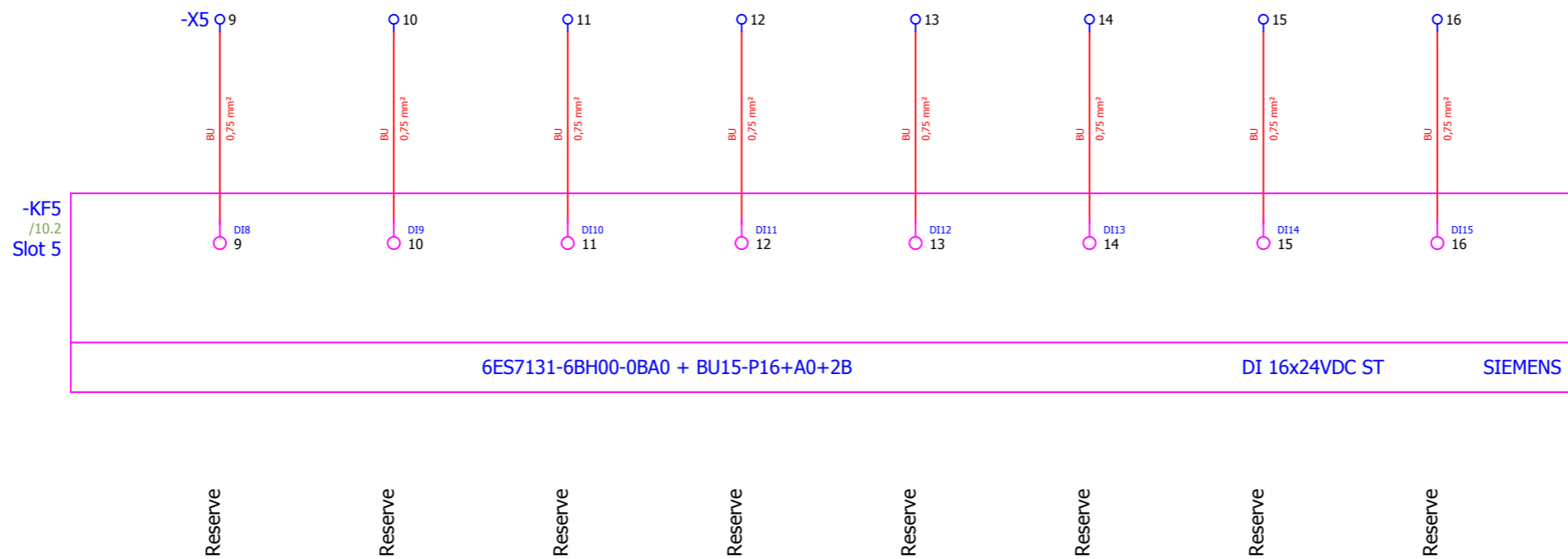


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CHECKED BY	DATE
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ePLAN electric 8 v2.5.4	DESIGN SITE ESS

DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602
PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002	PAGE SIZE A3
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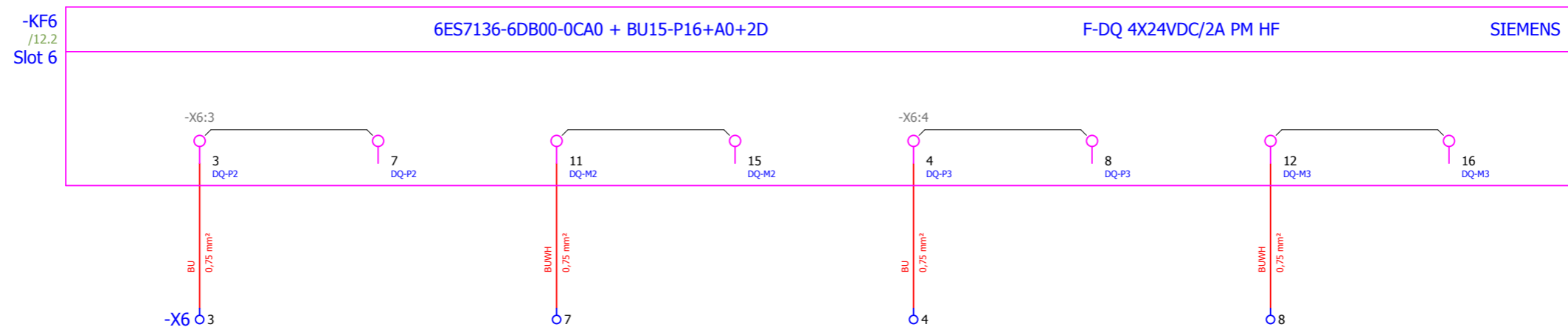
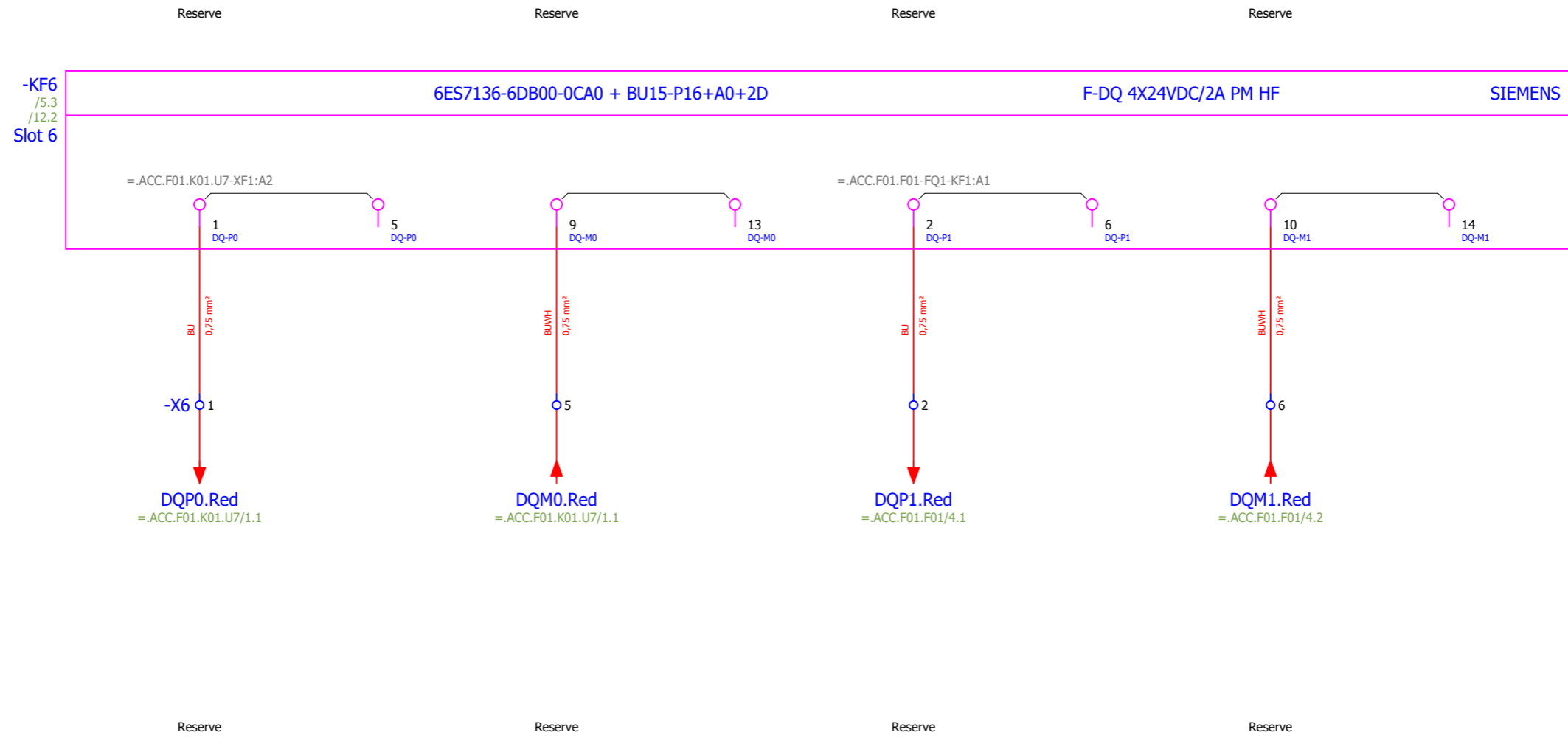


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ePLAN electric 8 v2.5.4	DESIGN SITE ESS

DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602
PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002	PAGE SIZE A3
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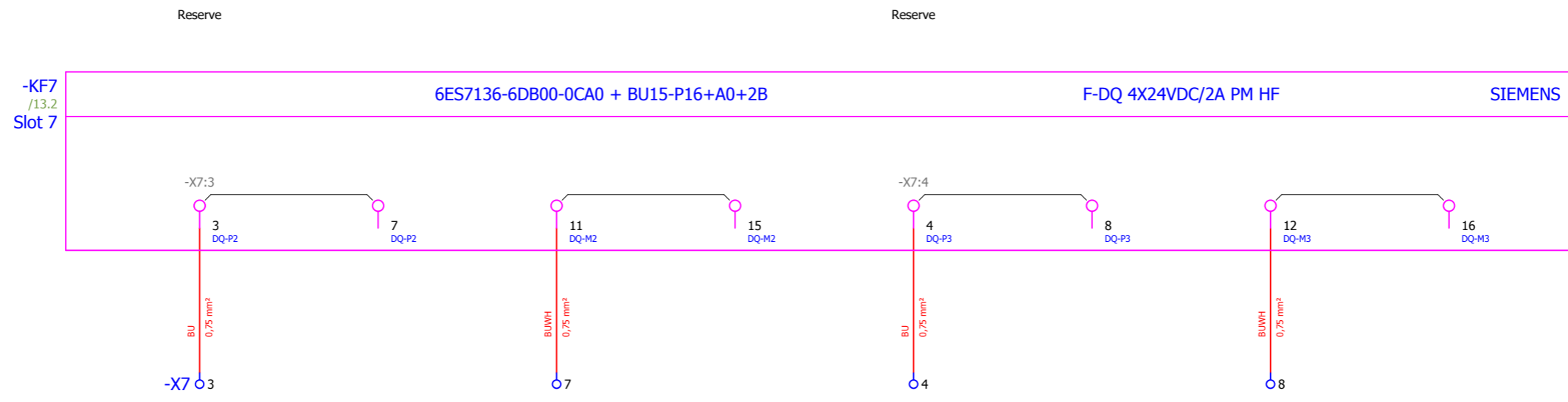
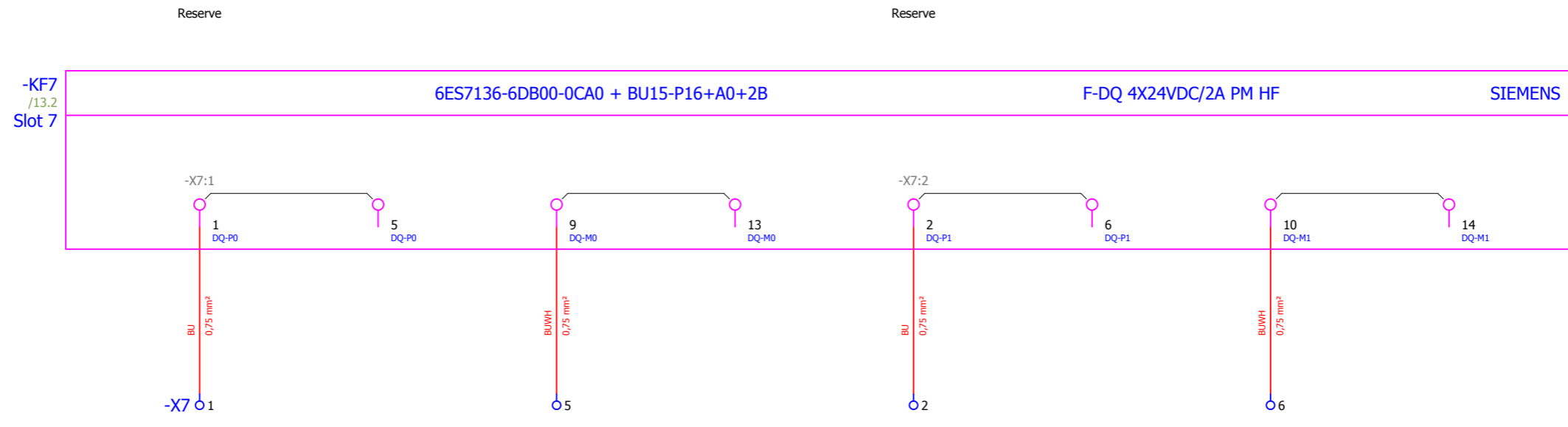
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

DRAWING NUMBER (Doc) ESS-0151602			
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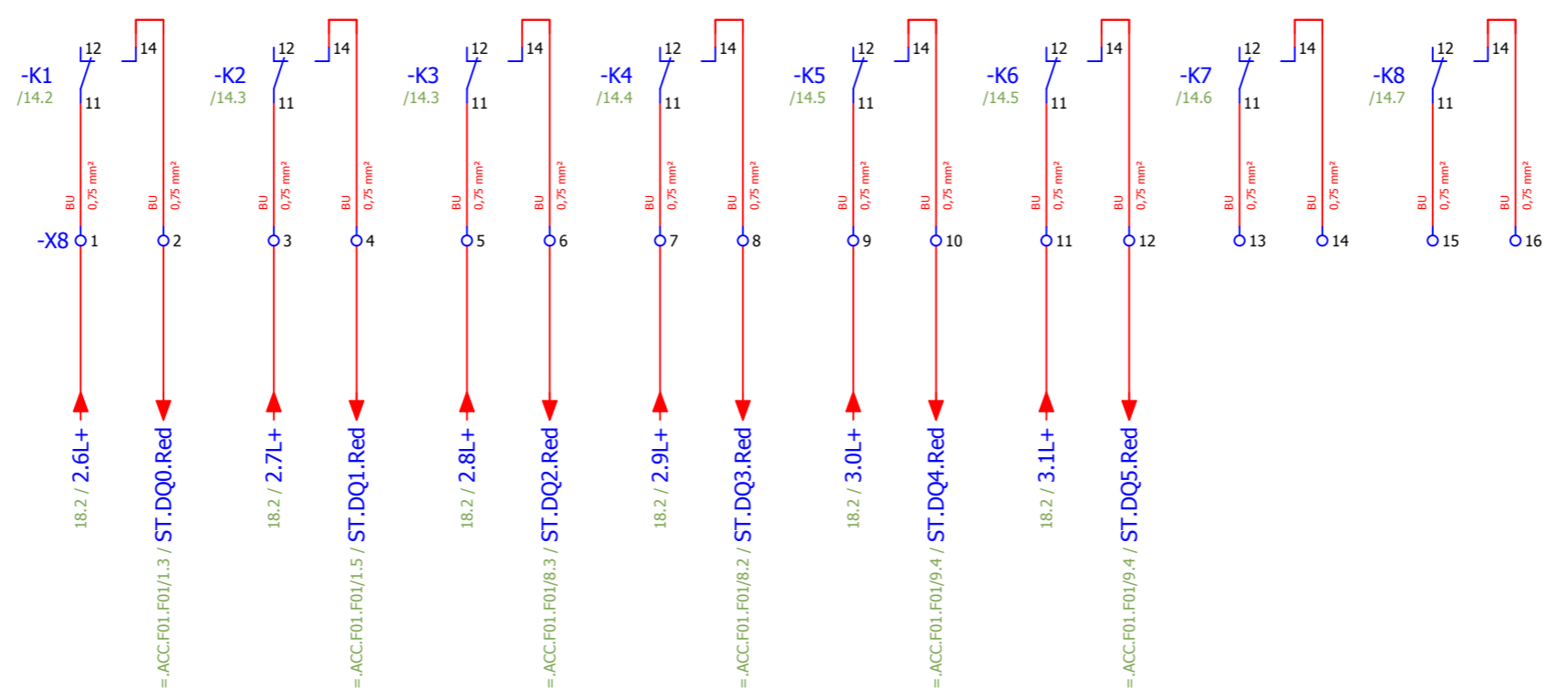
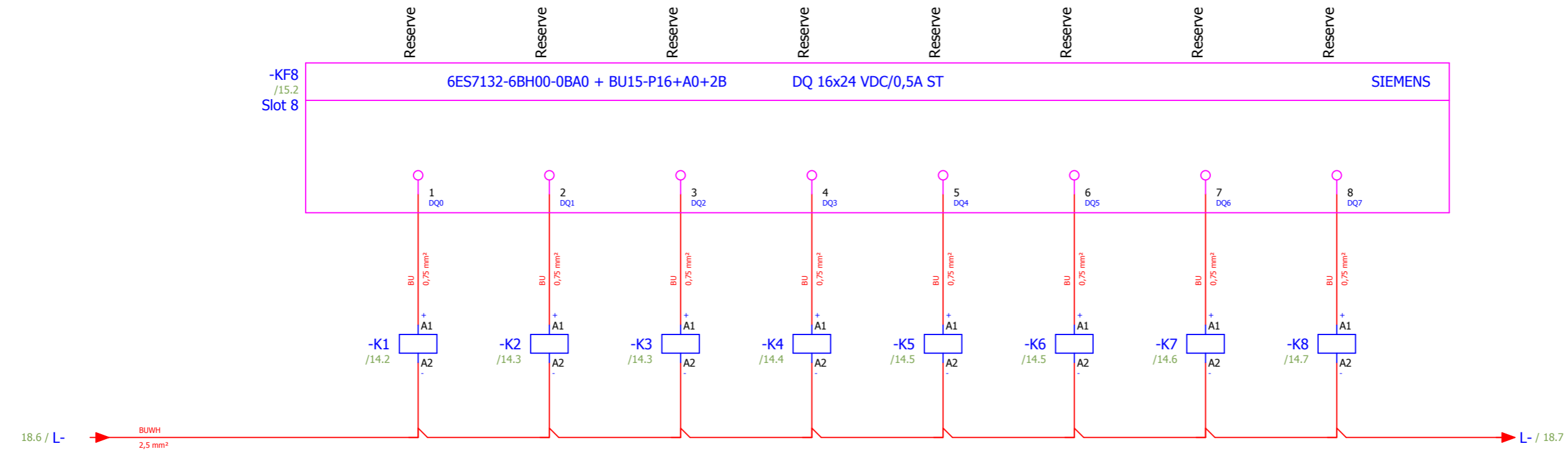
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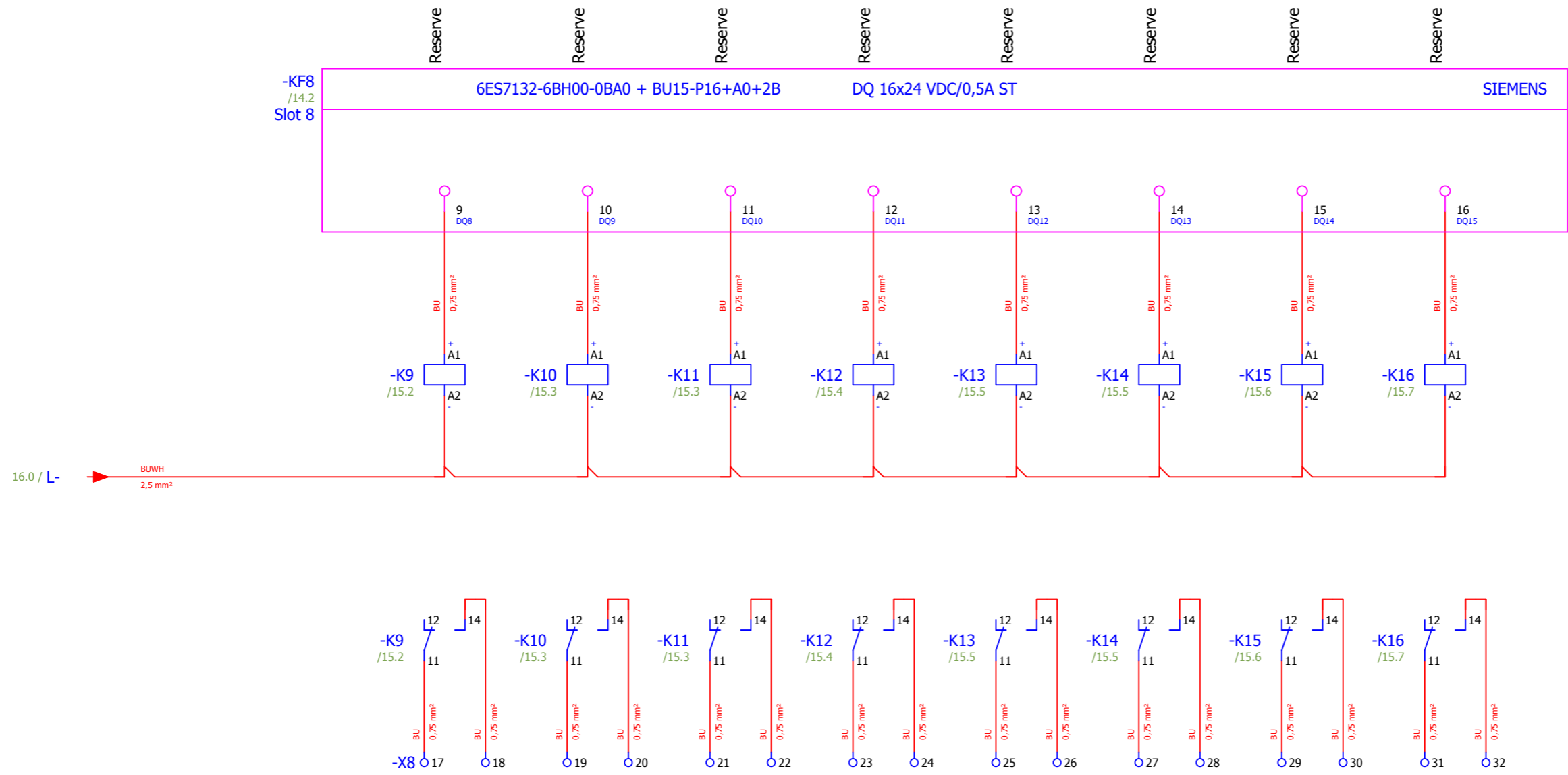
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NEXT 14			



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	<p>EUROPEAN SPALLATION SOURCE</p> <p>Documentation protection ISO 16016</p>	DRAWN BY ATZ	DATE	DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	FUNCTION RED SYSTEM RIO RACK 1	SHEET =ESS.ACC.F01.K01.U2&FS/14			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		ePLAN electric 8 V2.5.4	DESIGN SITE ESS	FEB-010ROW:CNPW-U-002	NEXT 15			



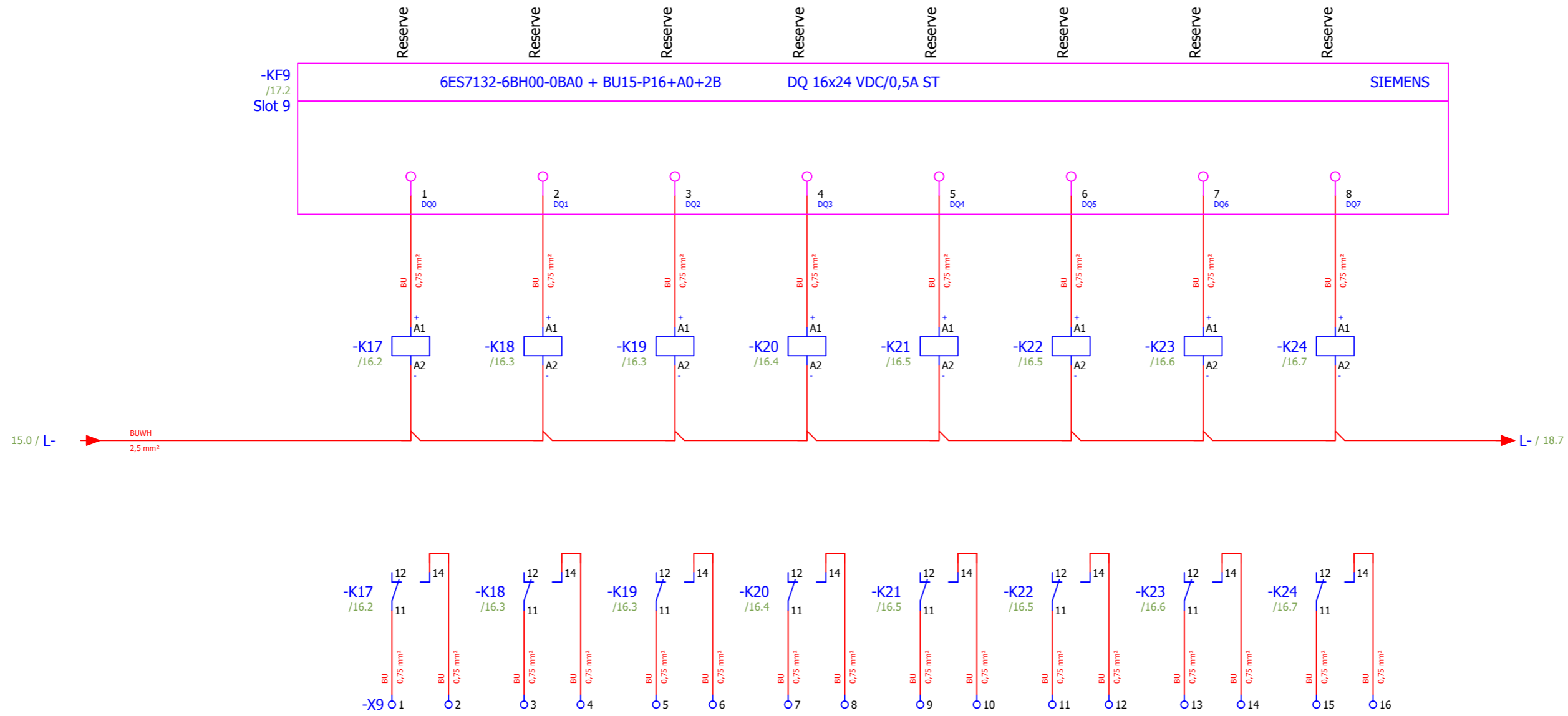
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DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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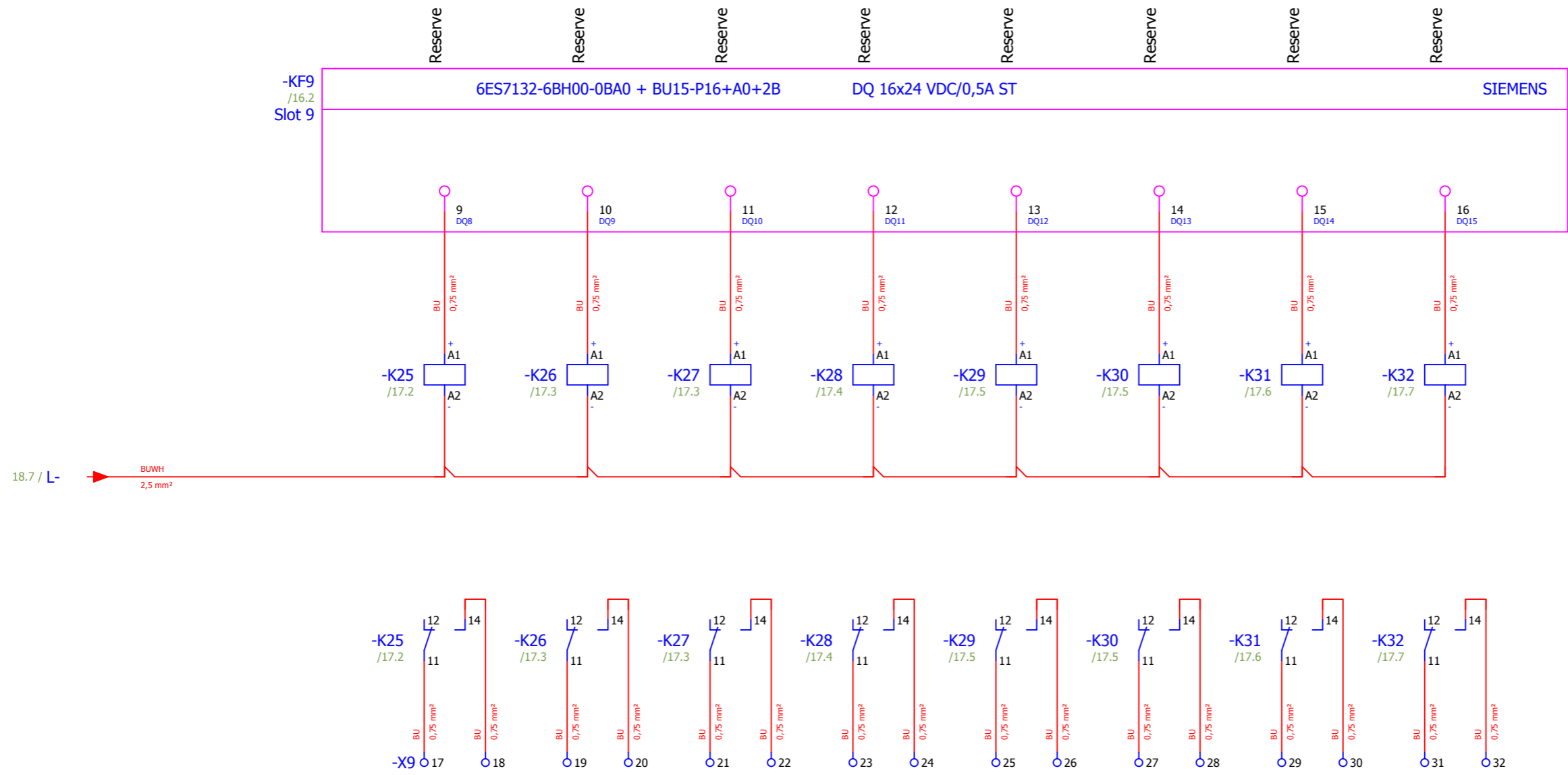
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

DRAWING NUMBER (Doc) ESS-0151602			
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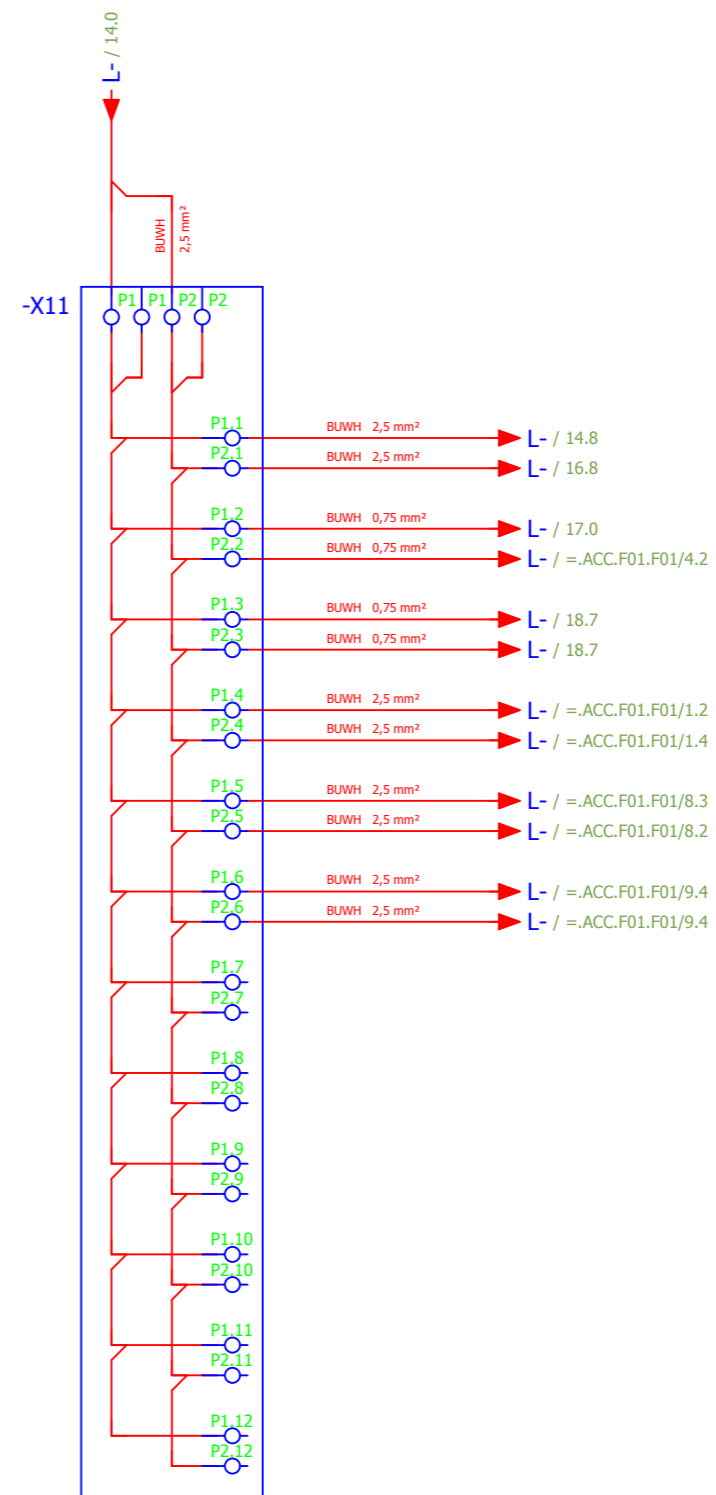
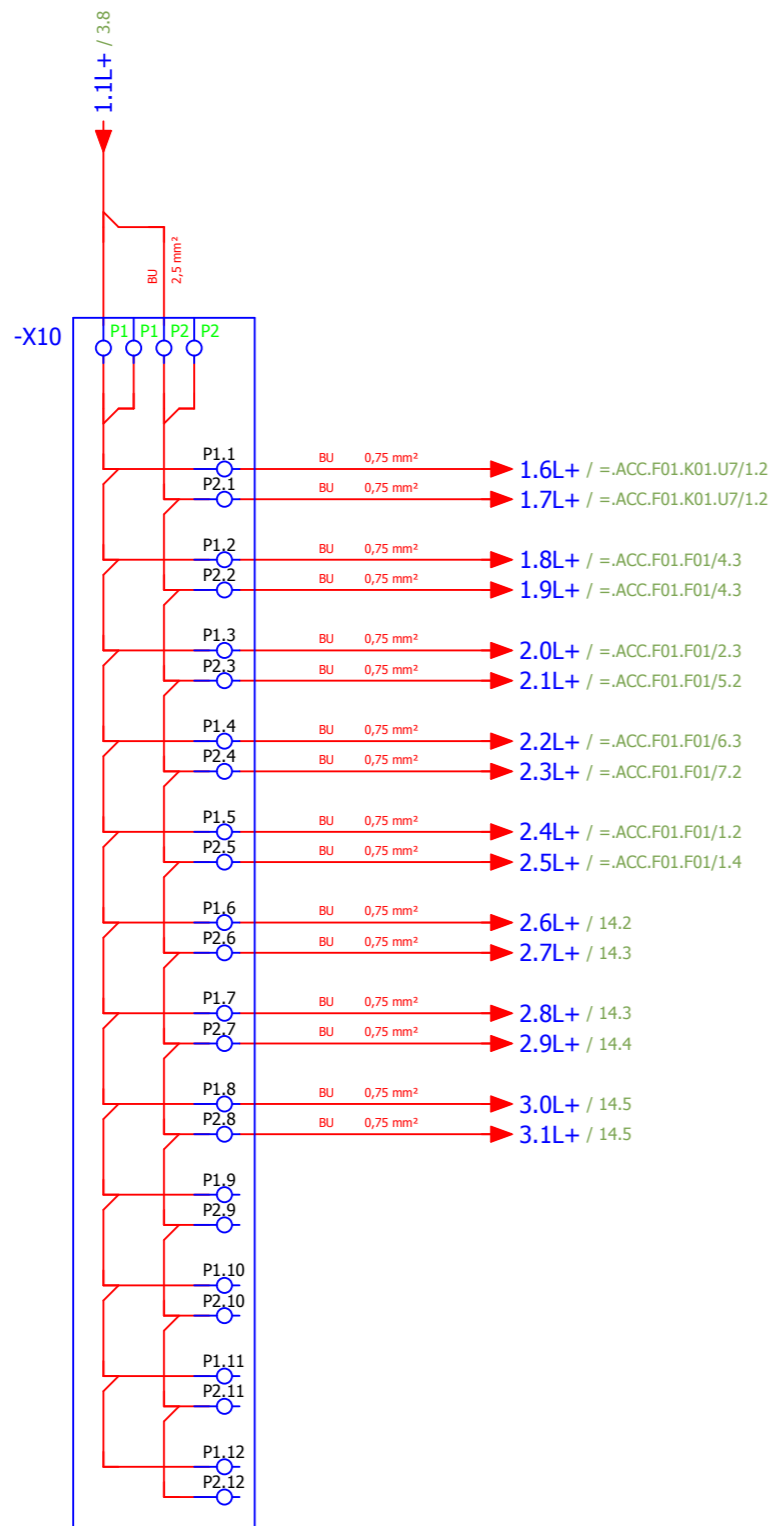
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002

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LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
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Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U2 -X1	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F01.K01.U2 -X1	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F01.K01.U2 -X1	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F01.K01.U2 -X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X2	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U2 -X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X6	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X6	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U2 -X6	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X7	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X7	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X8	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>			Accelerator PSS	ESS-0151602			
				 EPLAN electric 8 v2.5.4			Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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								NEXT 2			

Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U2 -X8	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X9	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U2 -X9	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U2 -X10	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U2 -X11	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U2 -FB1	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens	SIE.5SV3311-6	
=ESS.ACC.F01.K01.U2 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F01.K01.U2 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F01.K01.U2 -FC3	1	SITOP PSE200U	6EP1961-2BA11	Siemens	SIE.6EP1961-2BA11	
=ESS.ACC.F01.K01.U2 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F01.K01.U2 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F01.K01.U2 -K1	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K2	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K3	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K4	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K5	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K6	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K7	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
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				CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
				APPROVED BY	DATE	FUNCTION	PAGE SIZE
					DESIGN SITE	RED SYSTEM RIO RACK 1	PAGE SCALE
					ESS	FEB-010ROW:CNPW-U-002	REV
							1
							3



Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U2 -K8	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K9	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K10	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K11	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K12	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K13	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K14	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K15	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K16	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE				RED SYSTEM RIO RACK 1 FEB-010ROW:CNPW-U-002	Preliminary	A3	1	
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							DESIGN SITE	NEXT 4			
							ESS				

Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U2 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U2 -KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	
=ESS.ACC.F01.K01.U2 -KF2	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U2 -KF3	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -KF6	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A 0+2D	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U2 -KF7	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A 0+2B	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -KF8	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -KF9	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U2 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F01.K01.U2 -QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	

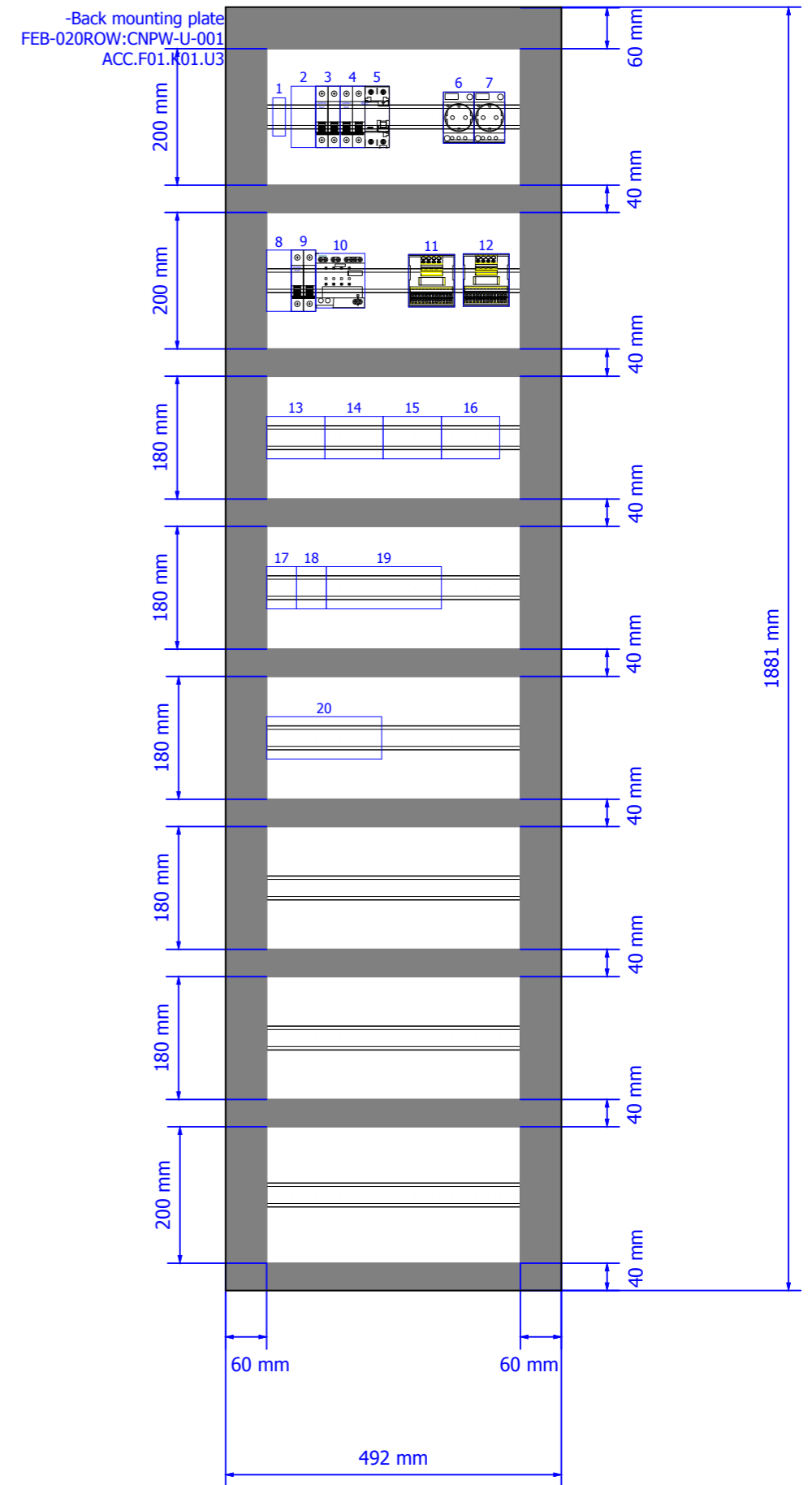
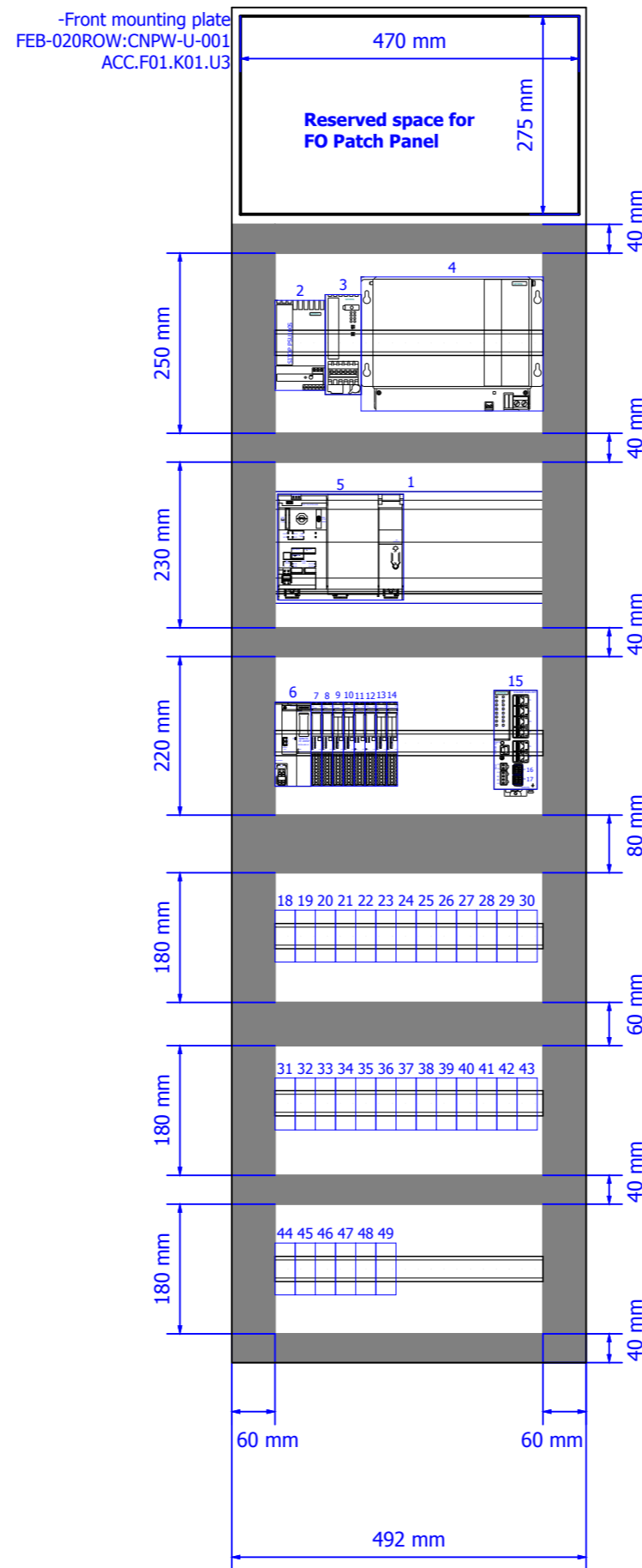
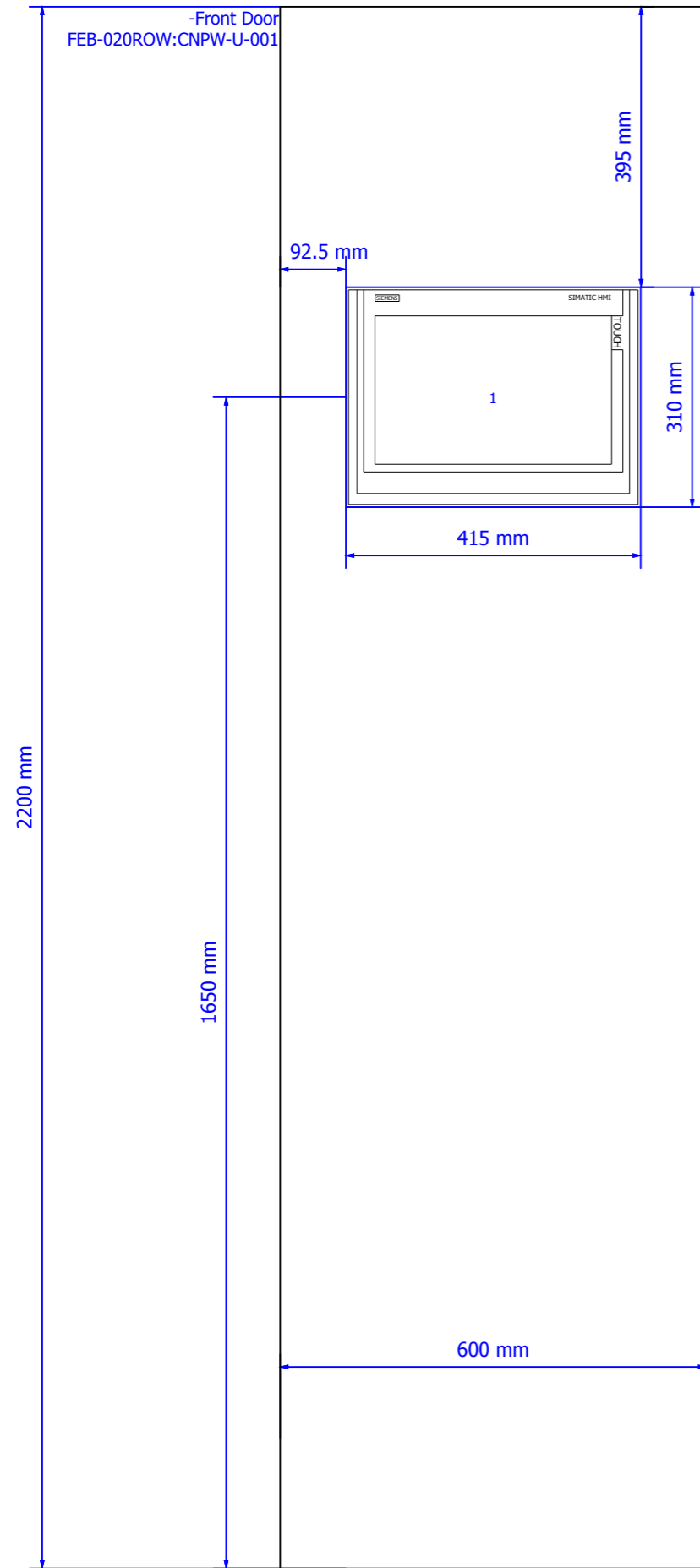
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				APPROVED BY	DATE	FUNCTION	PAGE SIZE
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					ESS	FEB-010ROW:CNPW-U-002	REV
							1
							SHEET =ESS.ACC.F01.K01.U2&PC/4
							NEXT 5



Parts list

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U2 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F01.K01.U2 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	
=ESS.ACC.F01.K01.U2 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F01.K01.U2 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F01.K01.U2 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F01.K01.U2 -XG2	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	FUNCTION	PAGE SIZE
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			DESIGN SITE		PAGE SCALE
					ESS		Accelerator PSS	ESS-0151602
							Parts list	Preliminary
							RED SYSTEM RIO RACK 1	A3
							FEB-010ROW:CNPW-U-002	1
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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ePLAN electric 8 v2.5.4	DESIGN SITE ESS

DRAWING TITLE Accelerator PSS
PAGE TYPE Panel layout
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

DRAWING NUMBER (Doc) ESS-0151602	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 9	REV
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NEXT 2				

Enclosure legend

Item number	Device tag	Type number	Part number	Manufacturer	Function text
1	X1				
2	QB1	5TL1232-0	5TL1232-0	Siemens	
3	FC1	5SL6516-7	SIE.5SL6516-7	Siemens	
4	FC2	5SL6510-7	SIE.5SL6510-7	Siemens	
5	FB1	5SV3311-6	SIE.5SV3311-6	Siemens	
6	XG1	SIE.5TE6800	SIE.5TE6800	Siemens	Electrical Socket
7	XG2	SIE.5TE6800	SIE.5TE6800	Siemens	=
8	QB2	5TL1232-0	5TL1232-0	Siemens	
9	FC4	5SL6504-7	SIE.5SL6504-7	Siemens	
10	FC3	6EP1961-2BA11	SIE.6EP1961-2BA11	Siemens	
11	X10	UMK- PVB 2/24/ZFKDS	PXC.2302366	Phoenix Contact	
12	X11	UMK- PVB 2/24/ZFKDS	PXC.2302366	Phoenix Contact	
13	X2				
14	X3				
15	X4				
16	X5				
17	X6				
18	X7				
19	X8				
20	X9				

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>  v2.5.4	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Enclosure legend	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		DESIGN SITE	ESS	BLUE SYSTEM PLC RACK FEB-020ROW: CNPW-U-001	Preliminary	A3	1	
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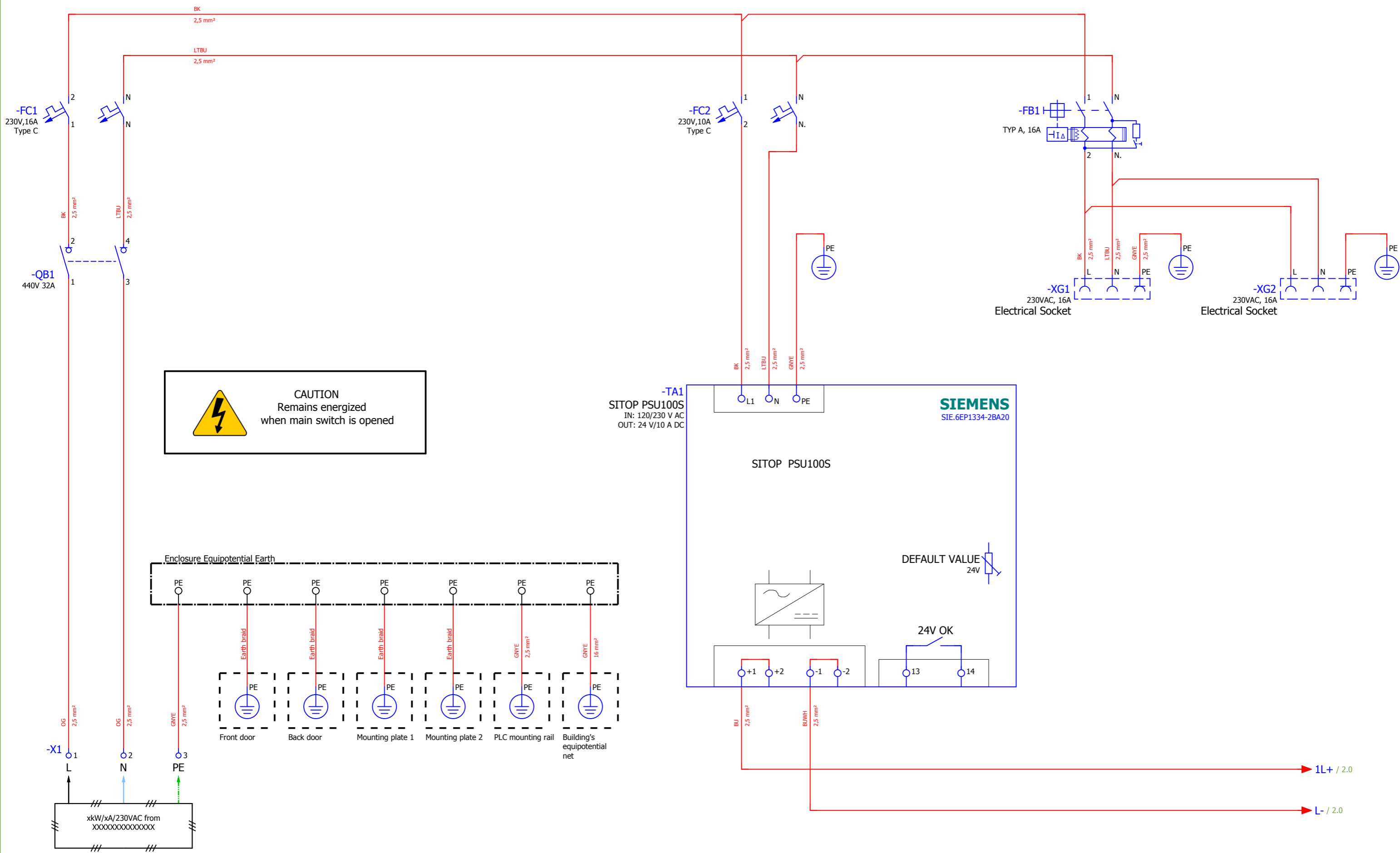
Enclosure legend

F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
1	KF1	6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0	Siemens	SIMATIC S7-1500F CPU 1518F-4 PN/DP
2	TA1	6EP1334-2BA20	SIE.6EP1334-2BA20	Siemens	SITOP PSU100S
3	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	SITOP UPS1600
4	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	SITOP UPS1100 Battery Module
5	KF1	6ES7518-4FP00-0AB0	SIE.6ES7518-4FP00-0AB0	Siemens	SIMATIC S7-1500F CPU 1518F-4 PN/DP
6	KF2	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	Siemens	SIMATIC ET 200SP Profinet Interface Module ET200SP
7	KF3	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital input module F-DI 8x24VDC
8	KF4	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0+2B	Siemens	
9	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
10	KF6	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
11	KF7	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0DA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2D	Siemens	SIMATIC ET 200SP Digital output module F-DQ 4x24VDC/2A
12	KF8	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0BA0	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0+2B	Siemens	
13	KF9	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
14	KF10	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
15	XF1	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2	Siemens	SCALANCE XC206 2SFP Manageable Layer 2 IE-SWITCH
16	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
17	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
18	K1	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
19	K2	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
20	K3	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
21	K4	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
22	K5	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
23	K6	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
24	K7	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
25	K8	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
26	K9	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
27	K10	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
28	K11	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
29	K12	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
30	K13	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
31	K14	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
32	K15	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
33	K16	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
34	K17	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
35	K18	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
36	K19	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
37	K20	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
38	K21	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
39	K22	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
40	K23	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
41	K24	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
42	K25	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
43	K26	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
44	K27	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
45	K28	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
46	K29	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
47	K30	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
48	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
49	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Enclosure legend	LIFECYCLE LABEL
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			DATE	BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001	PAGE SIZE A3
					DESIGN SITE ESS		PAGE SCALE 1	
							REV 1	
							SHEET =ESS.ACC.F01.K01.U3&LU/4	
							NEXT &FS/1	





REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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ATZ

CHECKED BY

APPROVED BY

DESIGN SITE
ESS

DATE

DATE

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DATE

DATE

DRAWING TITLE
Accelerator PSS

PAGE TYPE
Schematic multi-line

FUNCTION
**BLUE SYSTEM PLC RACK
FEB-020ROW:CNPW-U-001**

DRAWING NUMBER (Doc)
ESS-0151602

LIFECYCLE LABEL
Preliminary

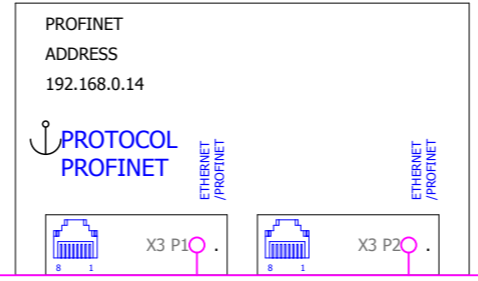
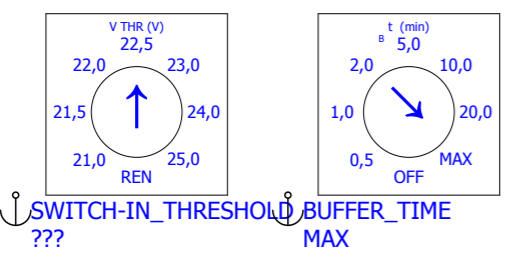
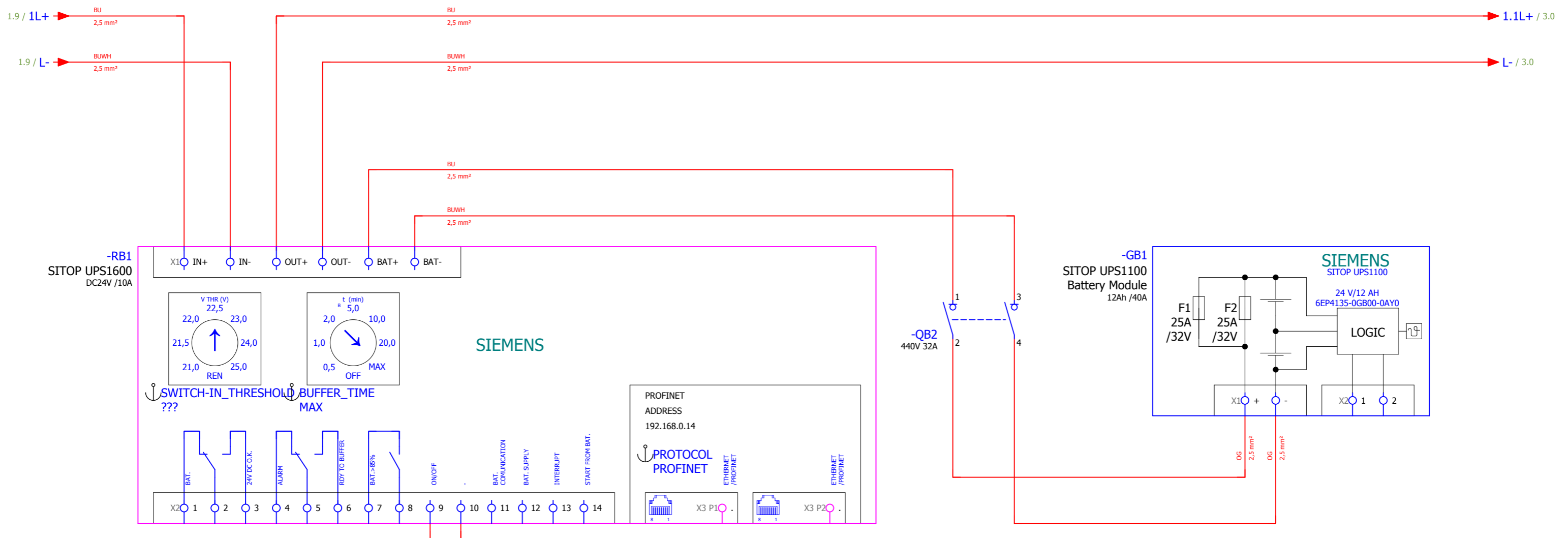
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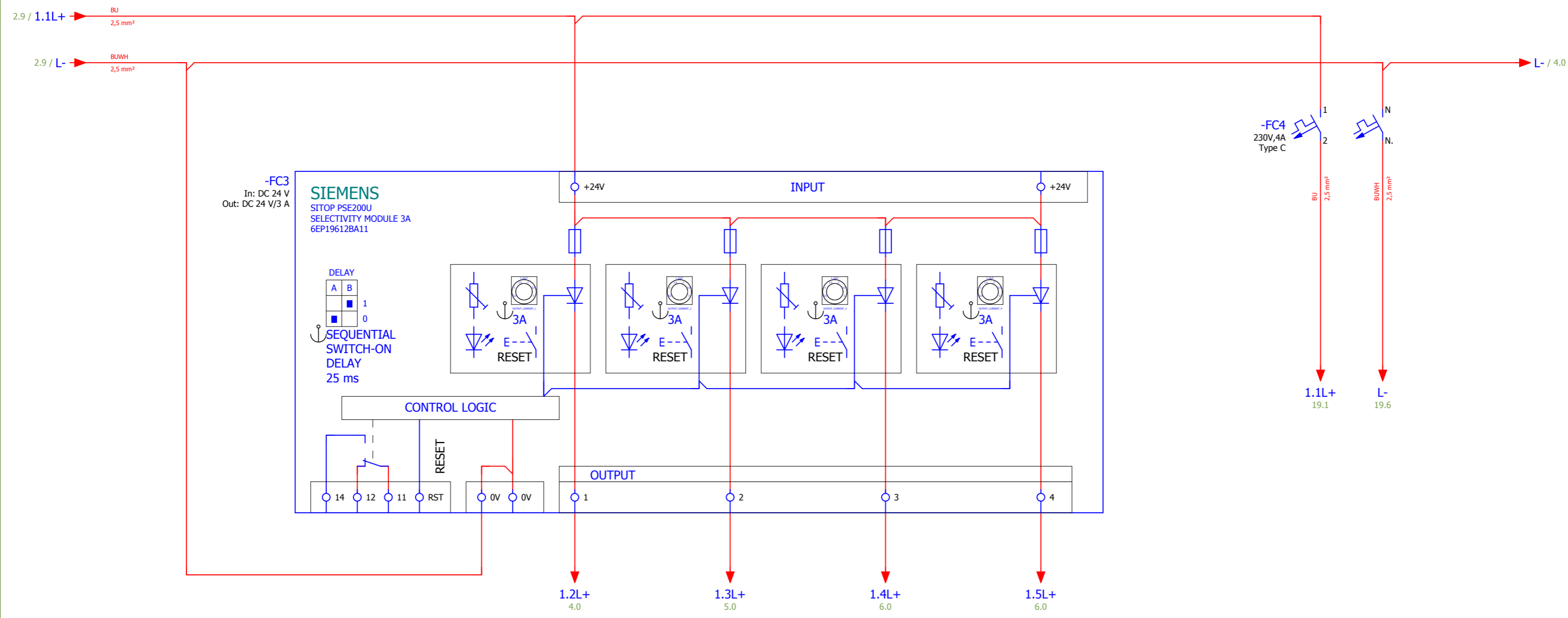
CAUTION
Remains energized
when main switch is opened

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



DRAWN BY ATZ	DATE
CHECKED BY	DATE
APPROVED BY	DATE
ePLAN electric8 v2.5.4	DESIGN SITE ESS

DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602
PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001	PAGE SIZE A3
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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DESIGN SITE
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ePLAN
electric8 v2.5.4

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DRAWING TITLE
Accelerator PSS

PAGE TYPE
Schematic multi-line

FUNCTION
**BLUE SYSTEM PLC RACK
FEB-020ROW:CNPW-U-001**

DRAWING NUMBER (Doc)
ESS-0151602

LIFECYCLE LABEL
Preliminary

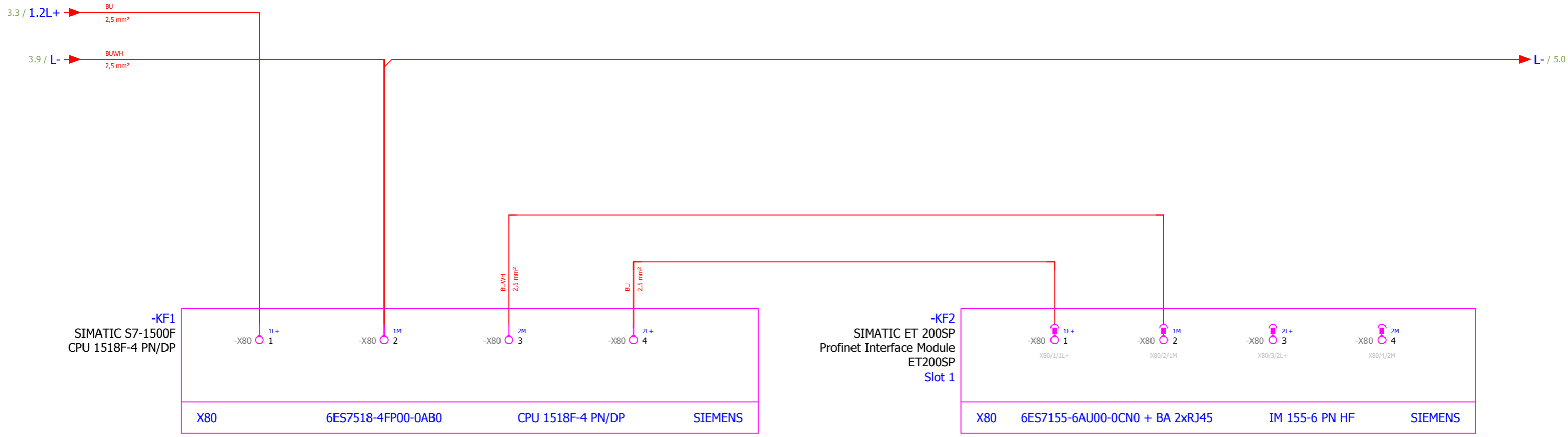
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PAGE SIZE
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PAGE SCALE
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REV



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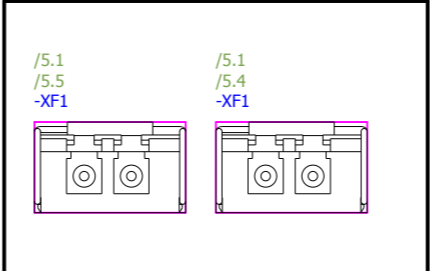
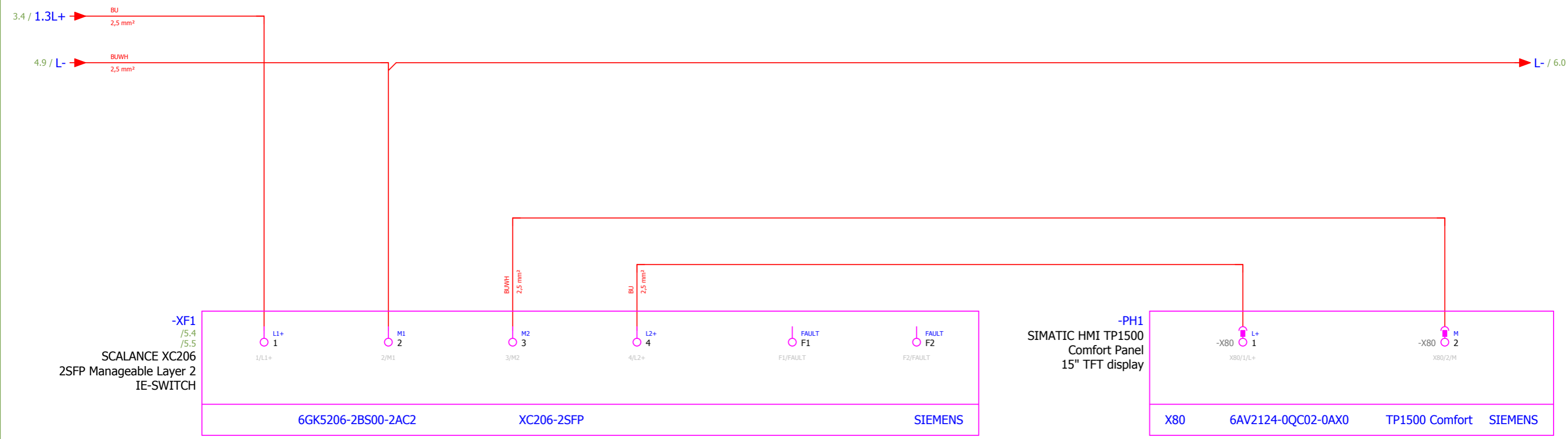


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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

DRAWING NUMBER (Doc) ESS-0151602			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
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NEXT 5			





**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

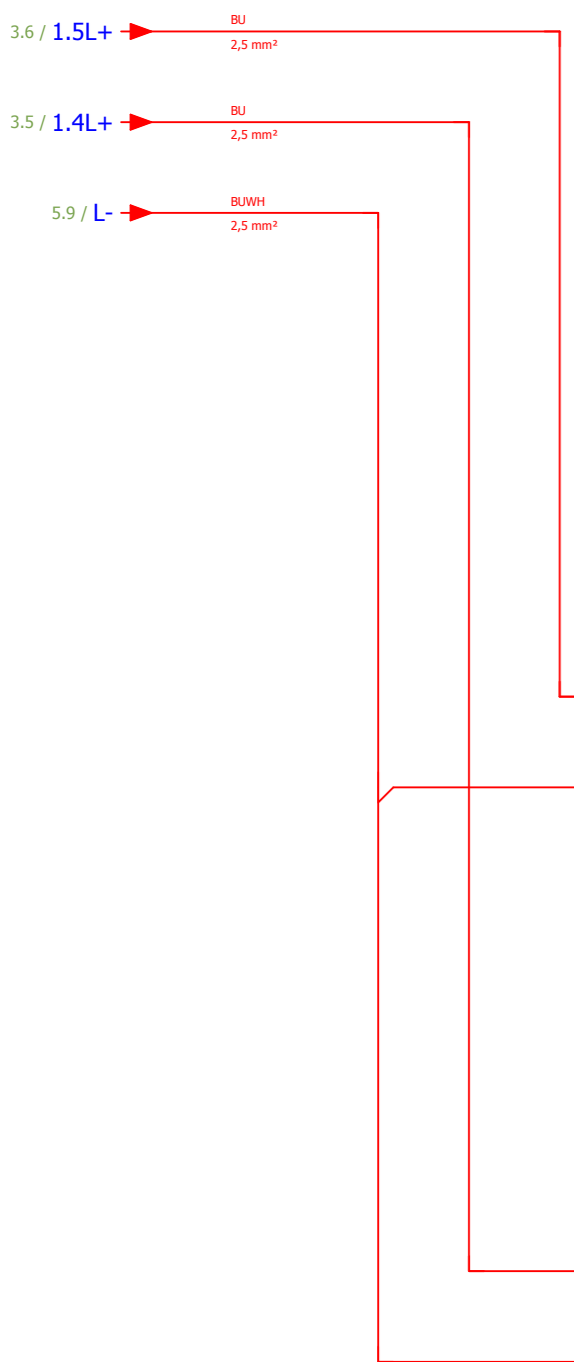
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
SHEET =ESS.ACC.F01.K01.U3&FS/5			
NEXT 6			



-KF7
/13.2
SIMATIC ET 200SP
Digital output module
F-DQ 4x24VDC/2A
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D	F-DQ 4X24VDC/2A PM HF	SIEMENS
L+ 24VDC	M 0VDC	

-KF3
/7.2
SIMATIC ET 200SP
Digital input module
F-DI 8x24VDC
Slot 2

6ES7136-6BA00-0CA0 + BU15-P16+A0+2D	F-DI 8x24VDC HF	SIEMENS
L+ 24VDC	M 0VDC	

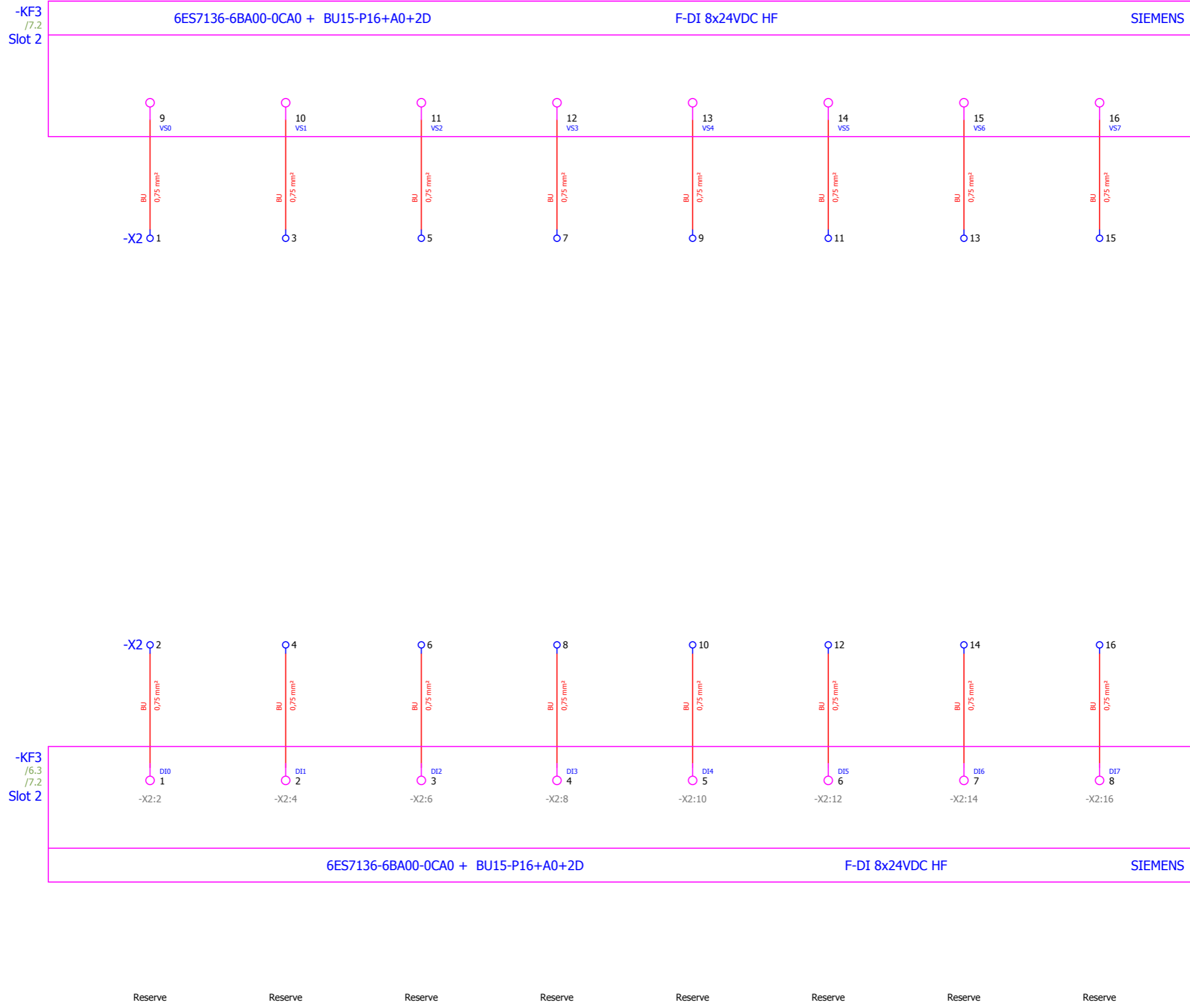
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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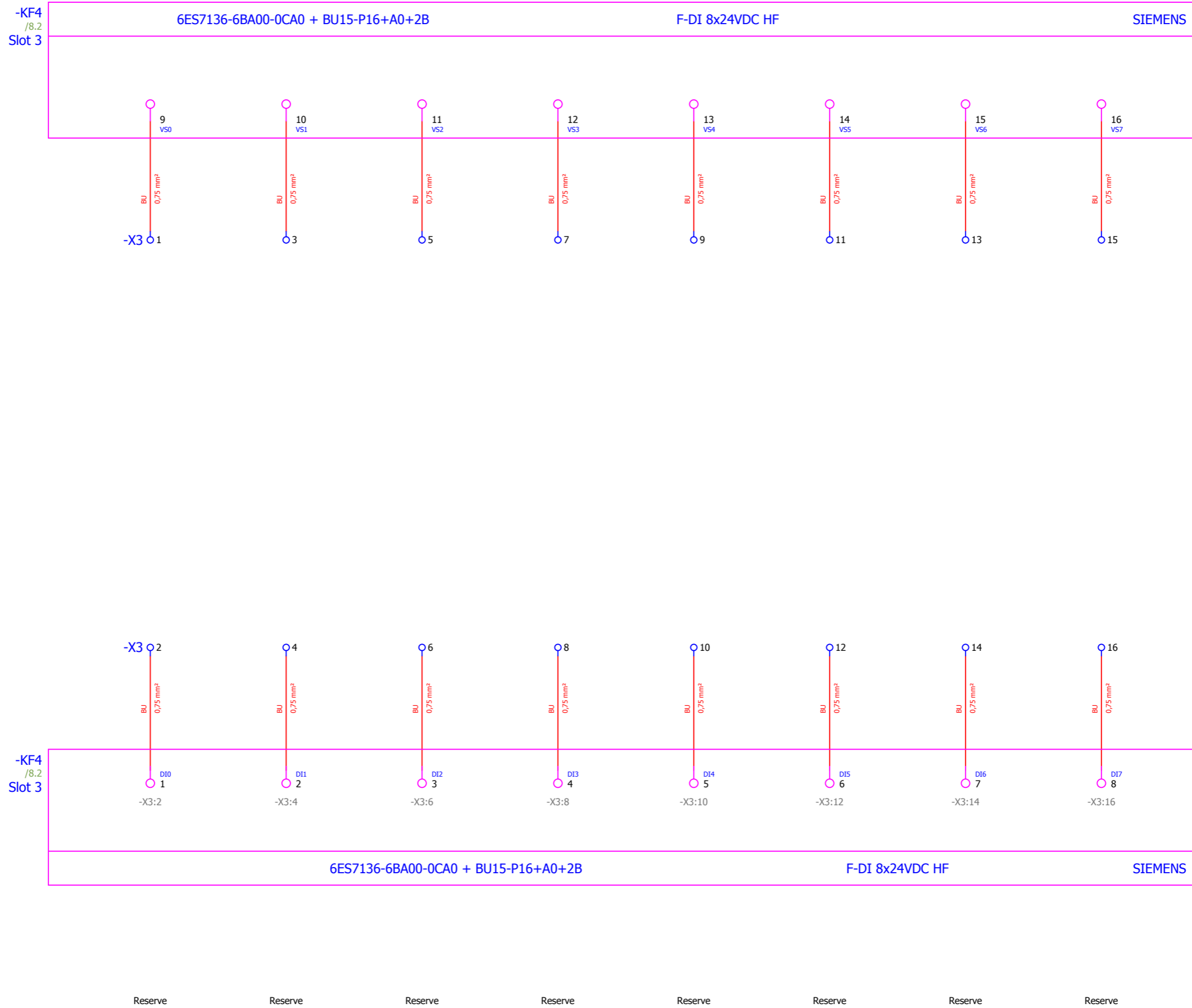
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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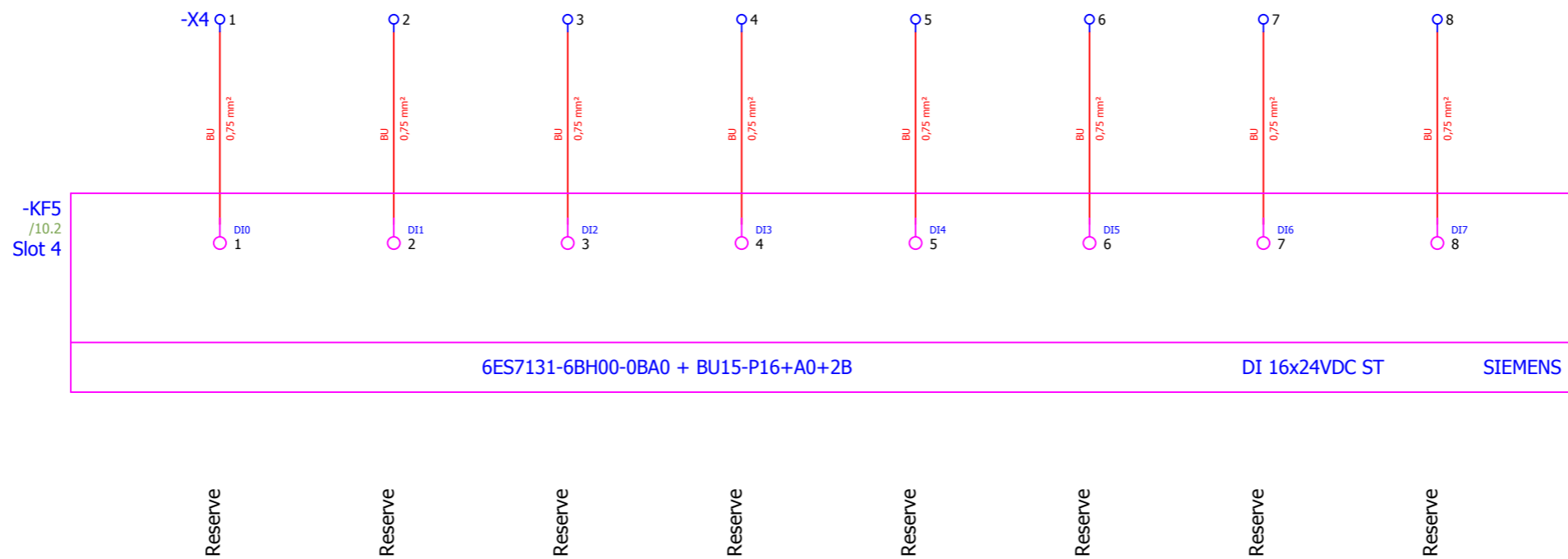


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APPROVED BY	DATE
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PAGE TYPE Schematic multi-line	
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001	LIFECYCLE LABEL Preliminary
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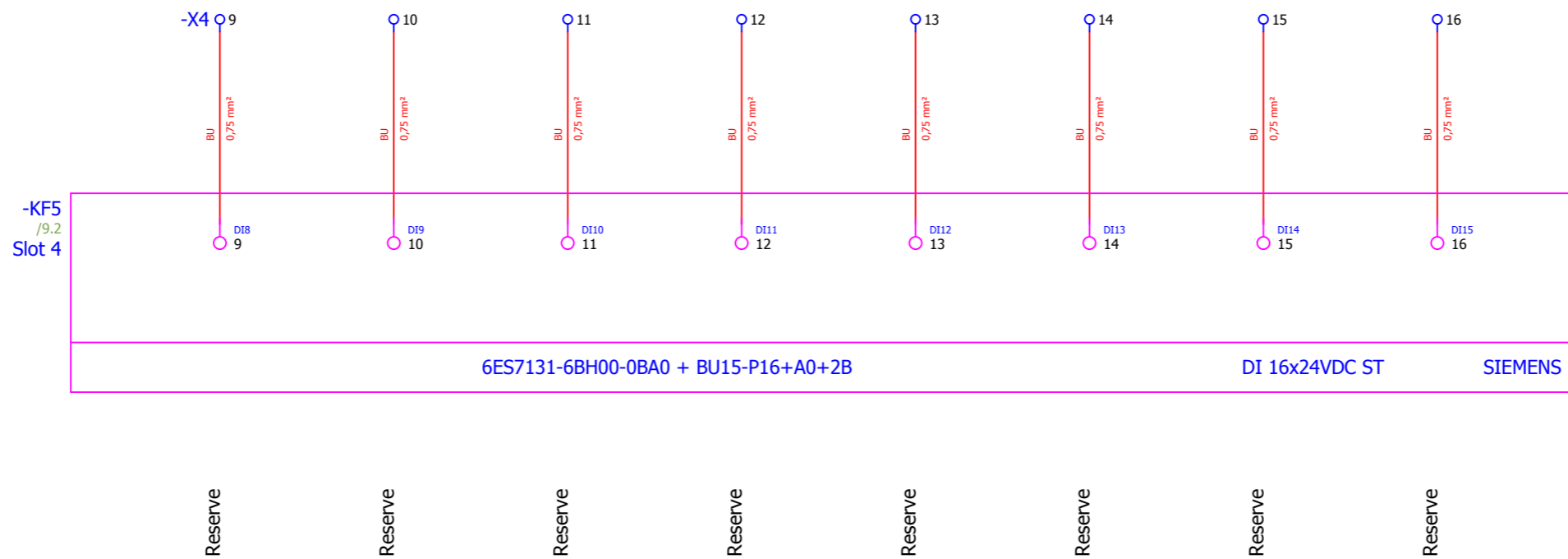


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ePLAN electric 8 v2.5.4	DESIGN SITE ESS

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DATE	FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001	PAGE SIZE A3
DATE	DESIGN SITE ESS	PAGE SCALE 1
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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ePLAN®
electric v2.5.4

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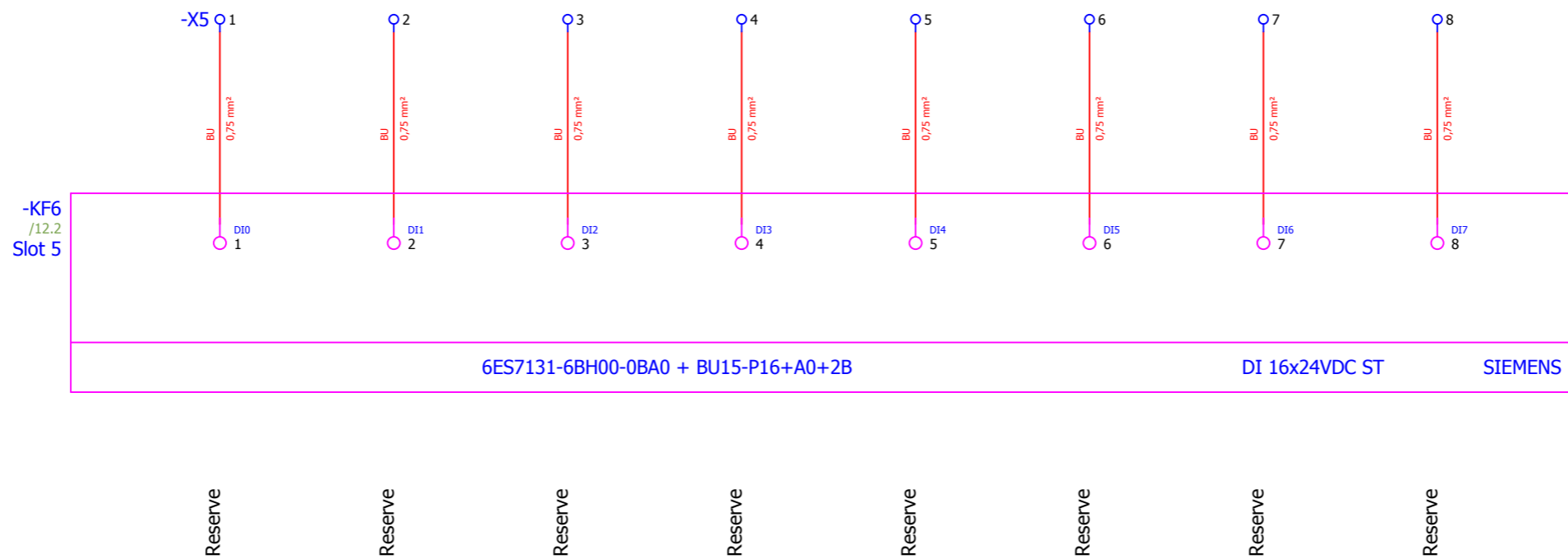
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Accelerator PSS

PAGE TYPE
Schematic multi-line

FUNCTION
**BLUE SYSTEM PLC RACK
FEB-020ROW:CNPW-U-001**

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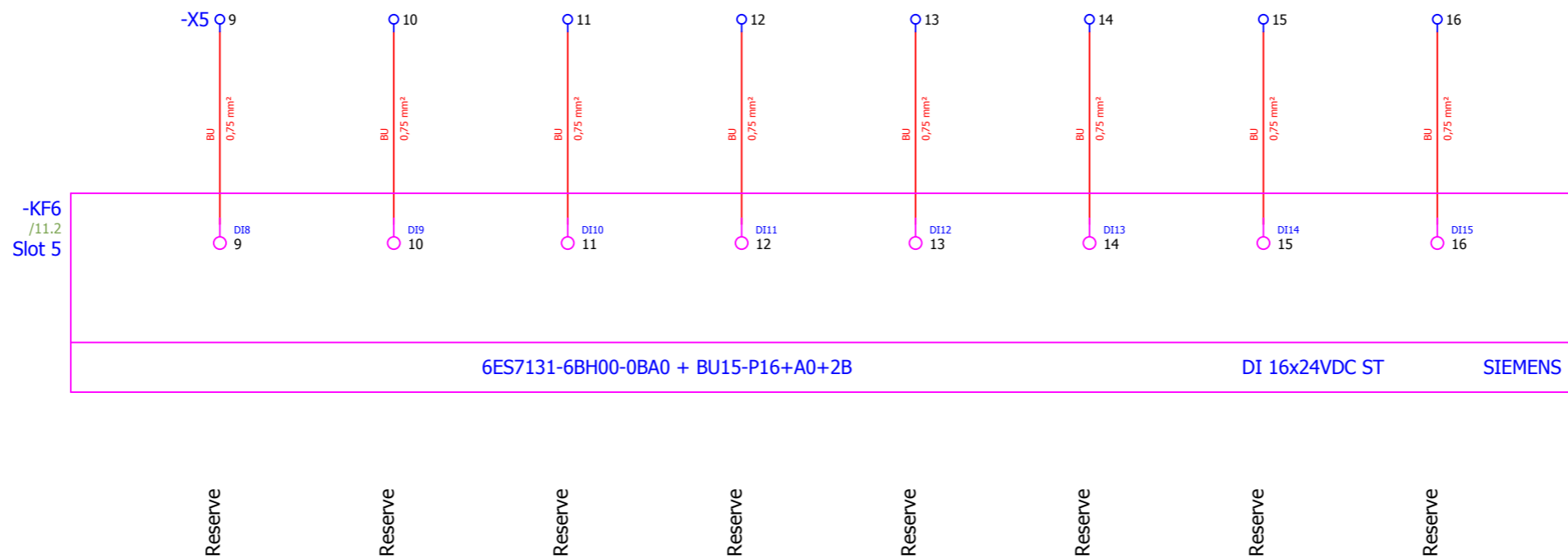


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APPROVED BY	DATE
ePLAN electric 8 v2.5.4	DESIGN SITE ESS

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PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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Reserve

Reserve

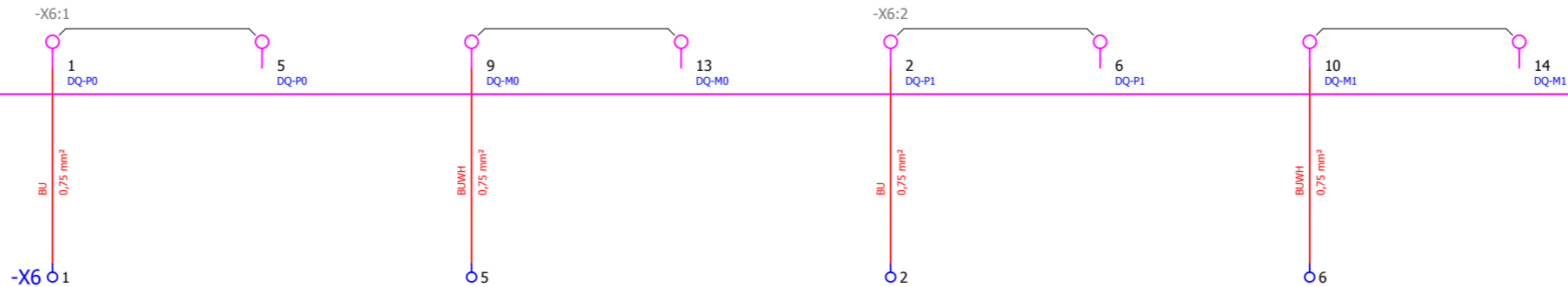
Reserve

-KF7
/6.3
/13.2
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D

F-DQ 4X24VDC/2A PM HF

SIEMENS



Reserve

Reserve

Reserve

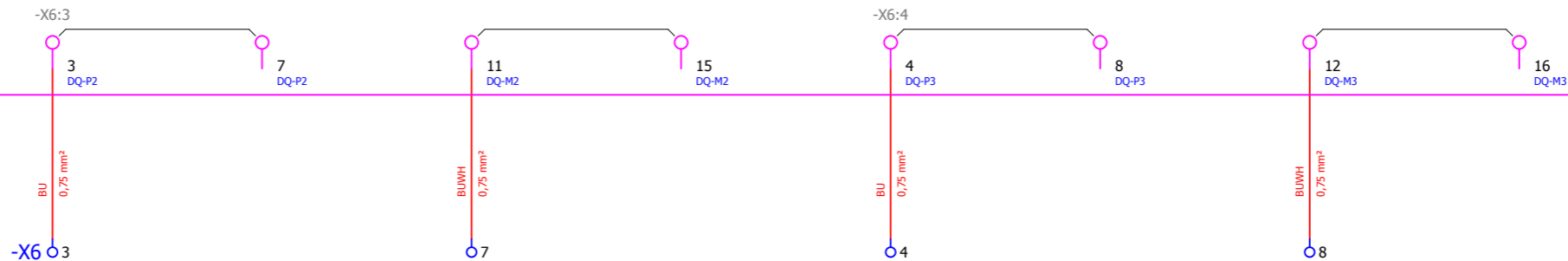
Reserve

-KF7
/13.2
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D

F-DQ 4X24VDC/2A PM HF

SIEMENS



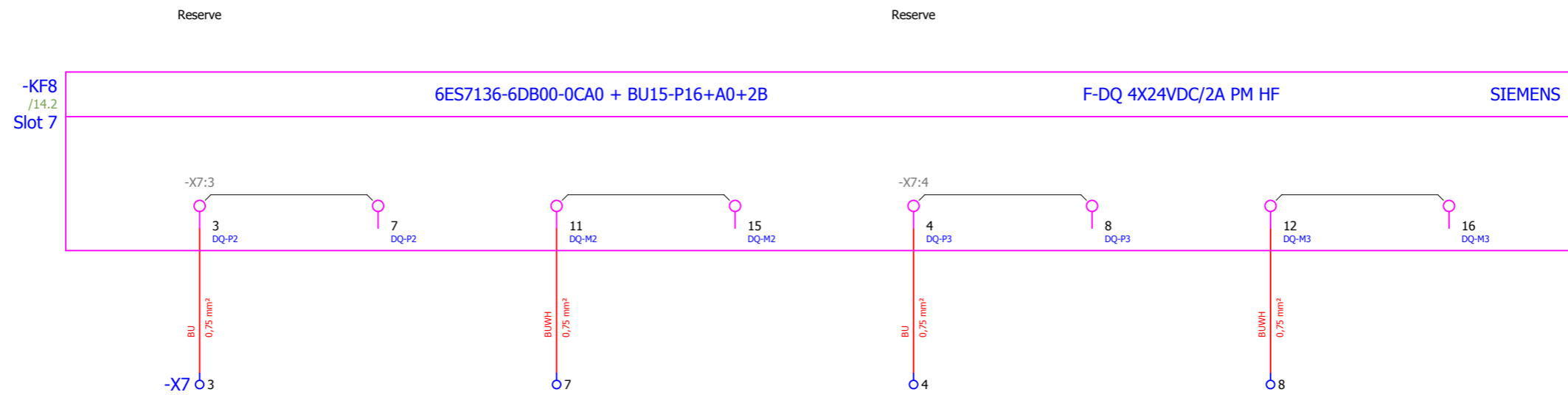
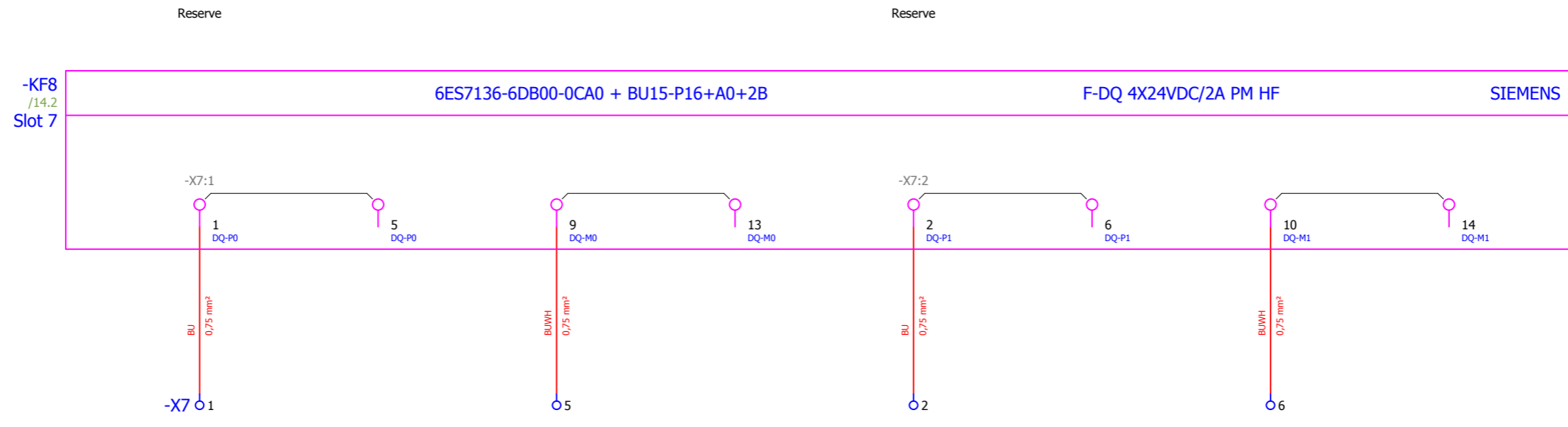
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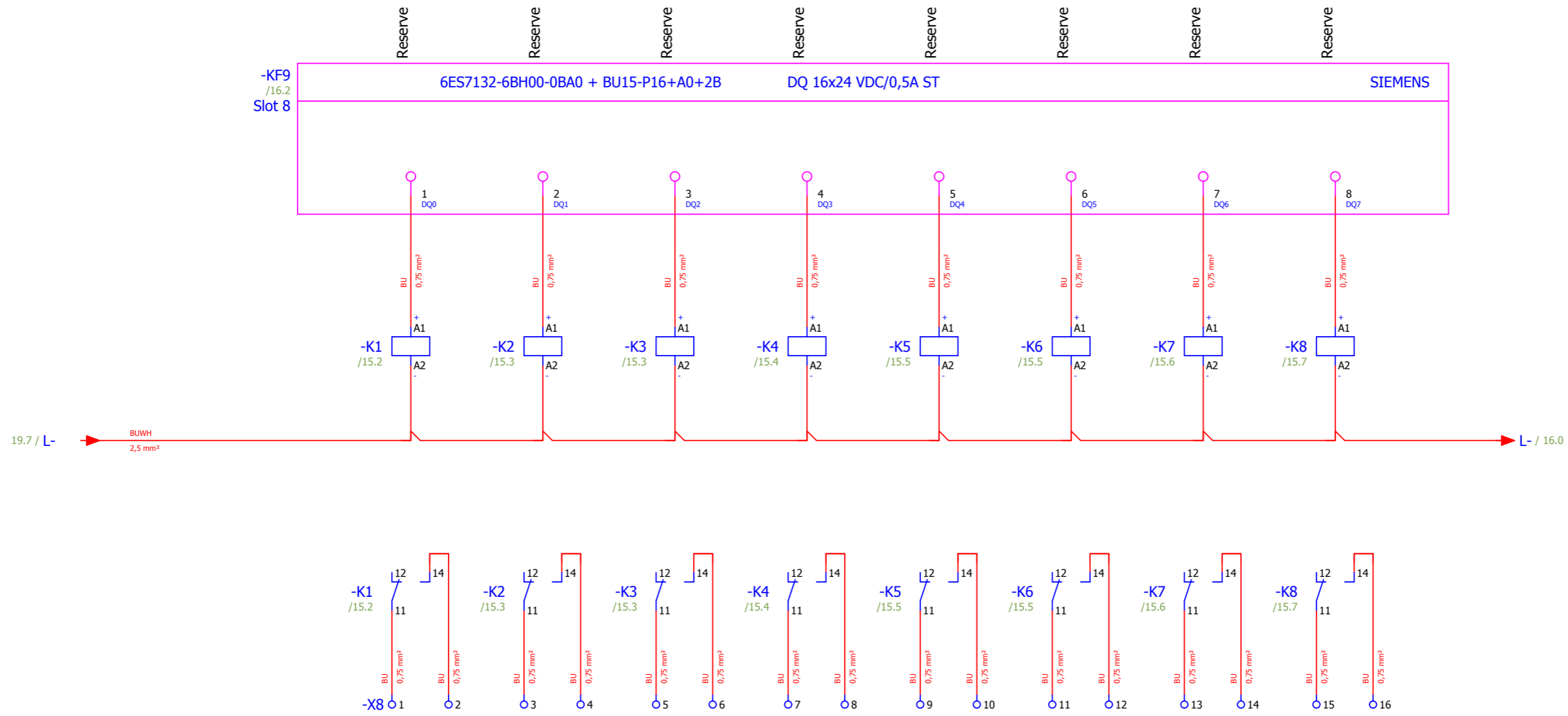
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		ATZ		Accelerator PSS	ESS-0151602
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY		Page Type	LIFECYCLE LABEL
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			FUNCTION	PAGE SIZE	
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						FEB-020ROW: CNPW-U-001	PAGE SCALE	
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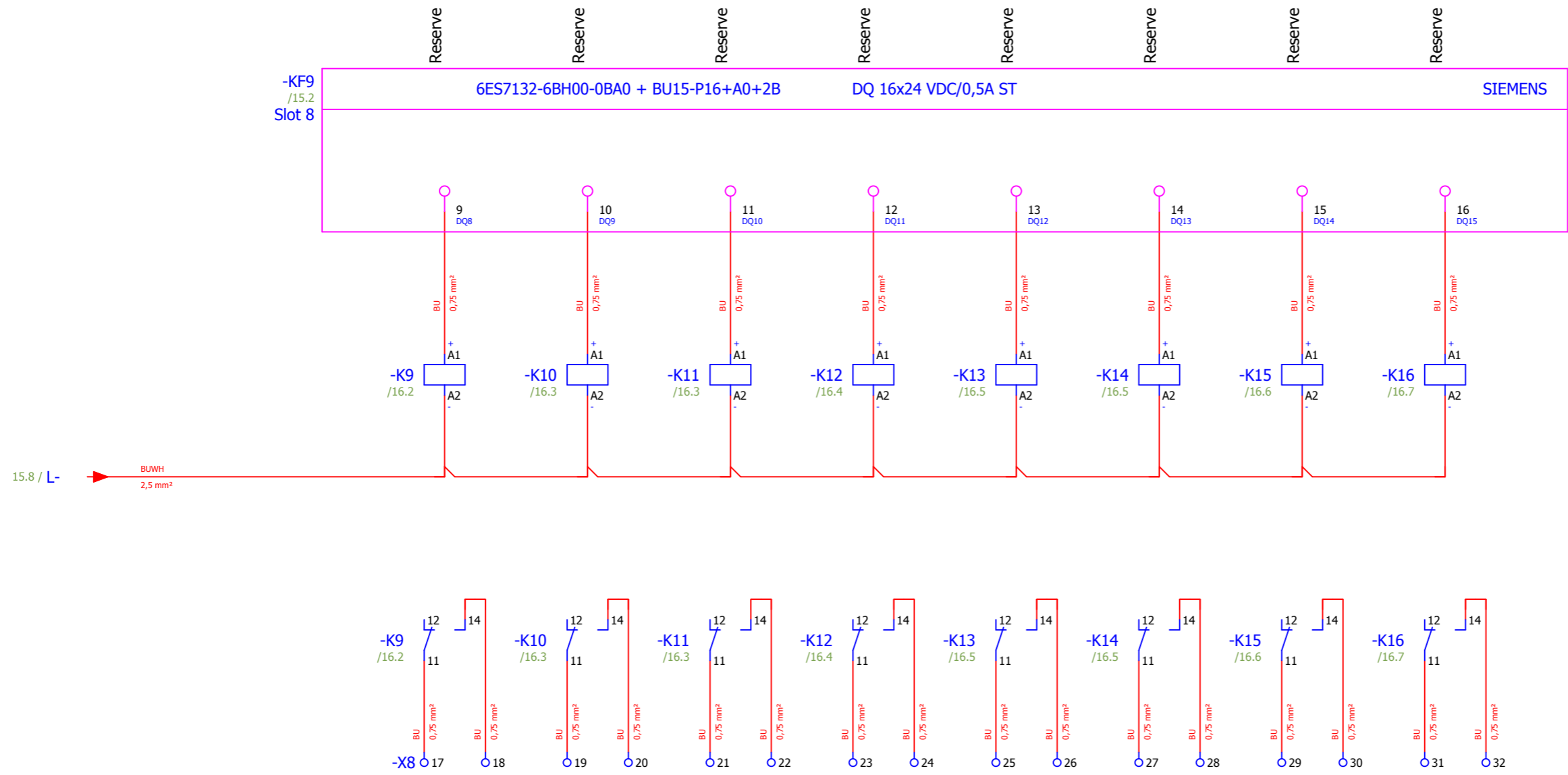
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FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW: CNPW-U-001

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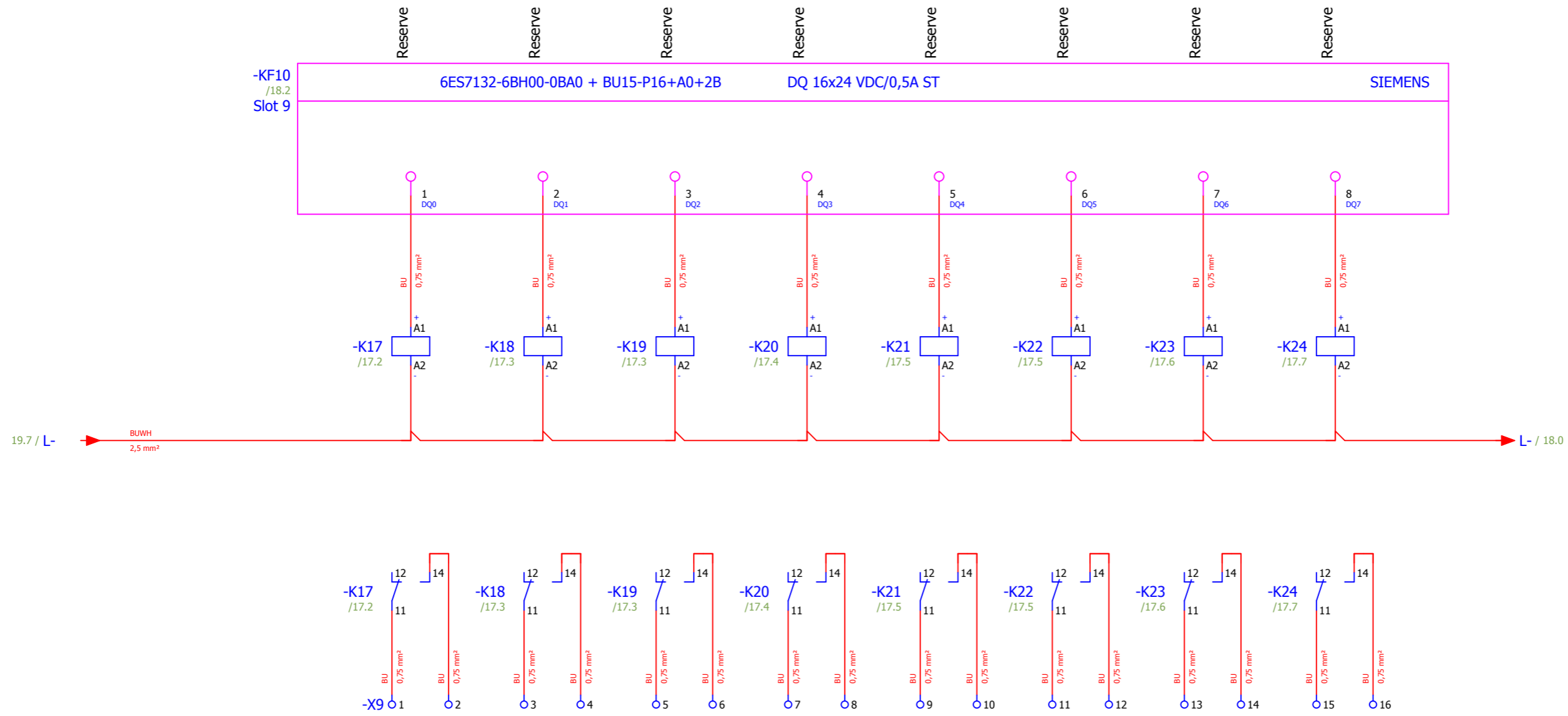
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PAGE TYPE
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FUNCTION
BLUE SYSTEM PLC RACK
FEB-020ROW:CNPW-U-001

DRAWING NUMBER (Doc)
ESS-0151602
LIFECYCLE LABEL
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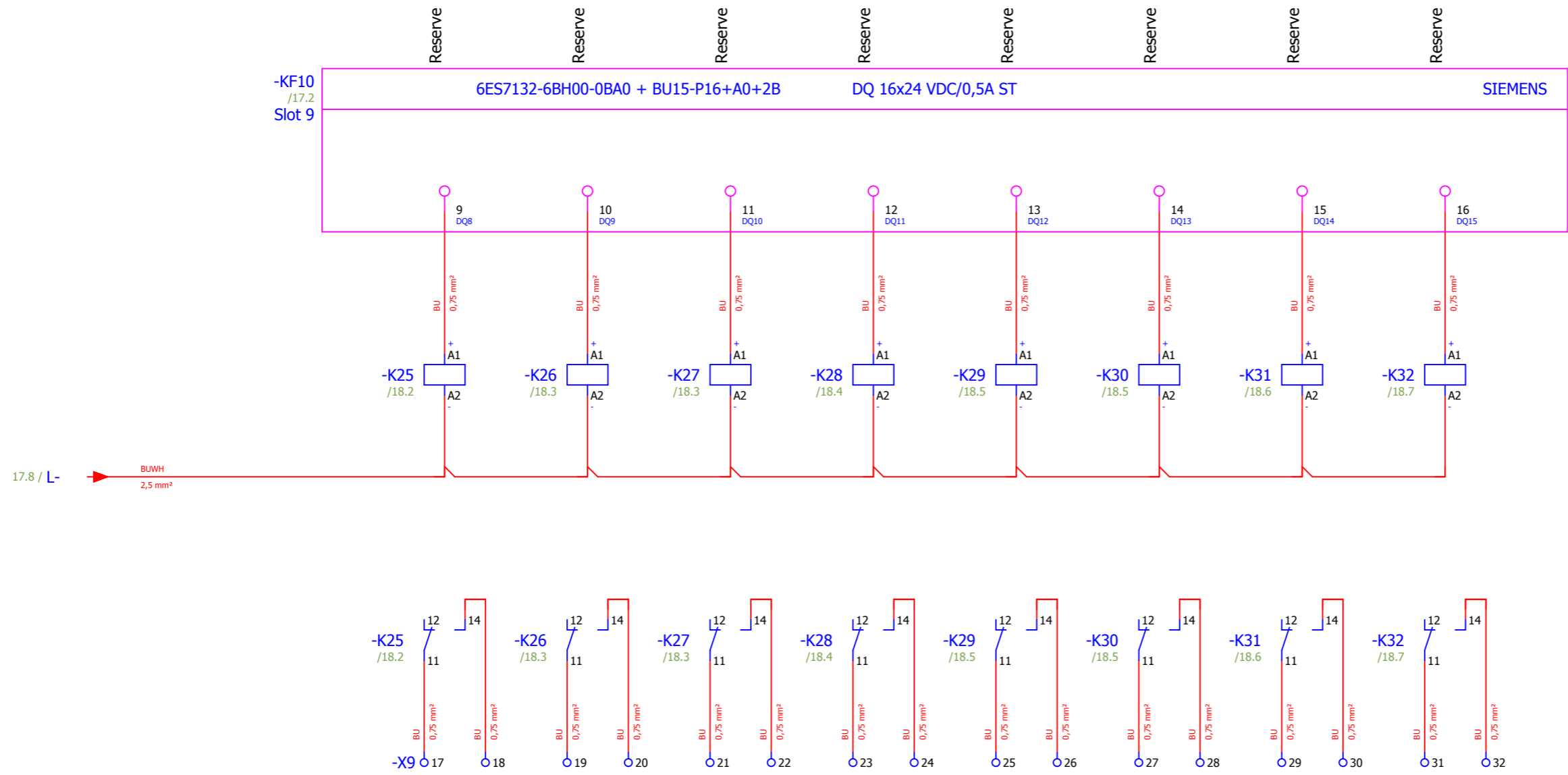
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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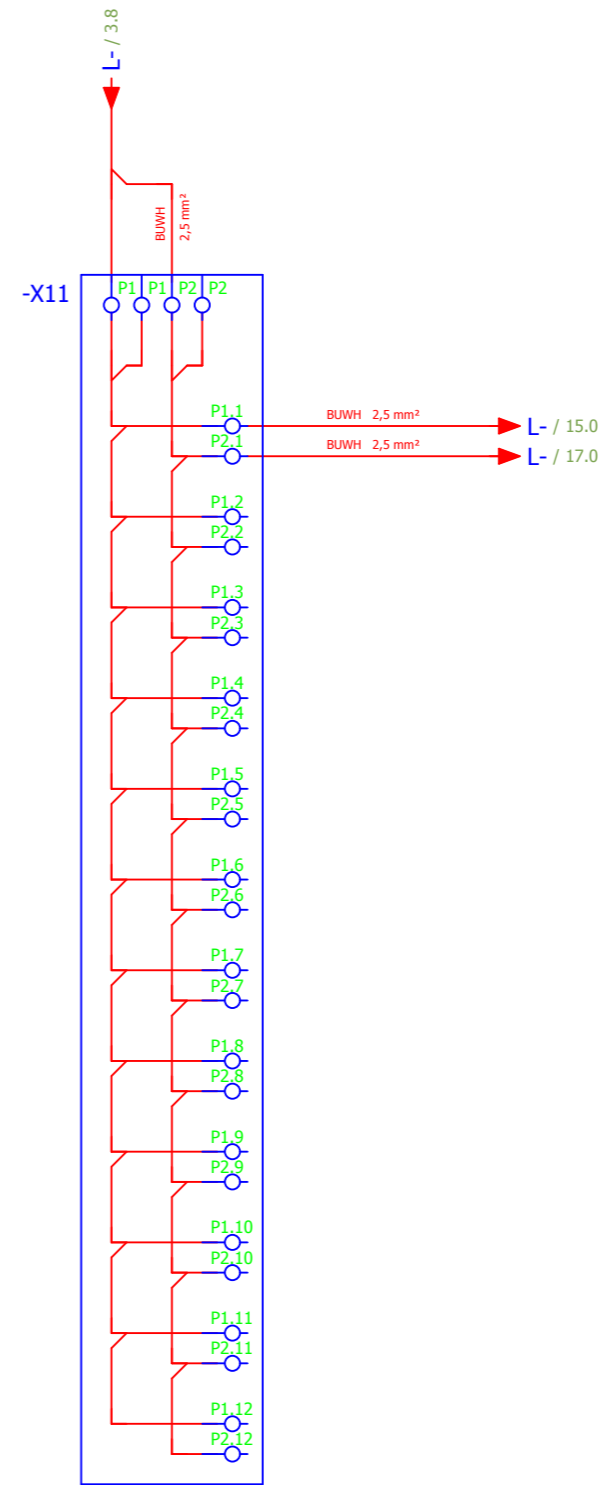
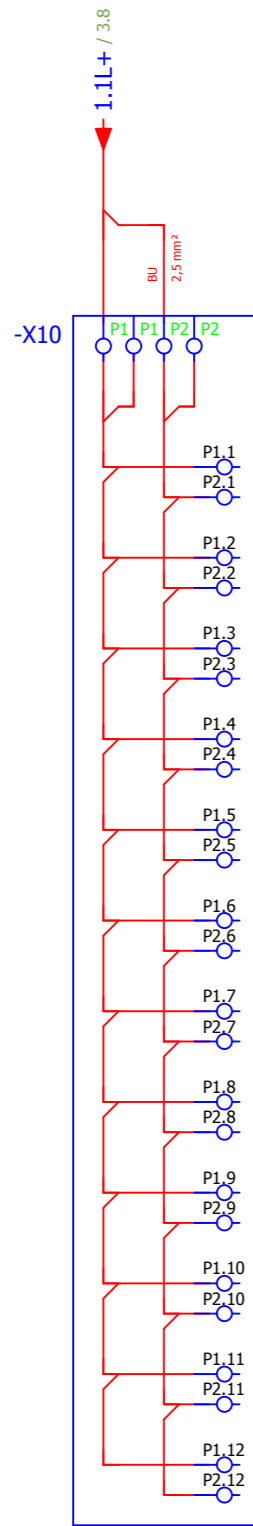
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE



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APPROVED BY	DATE
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001

DRAWING NUMBER (Doc) ESS-0151602			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
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Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U3 -X1	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F01.K01.U3 -X1	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F01.K01.U3 -X1	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F01.K01.U3 -X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X2	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U3 -X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X6	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X6	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U3 -X6	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X7	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X7	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X8	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>			Accelerator PSS	ESS-0151602			
				 EPLAN electric 8 v2.5.4			PAGE TYPE Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				APPROVED BY			FUNCTION BLUE SYSTEM PLC RACK FEB-020ROW:CNPW-U-001	Preliminary	A3	1	
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						ESS		NEXT 2			

Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U3 -X8	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X9	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U3 -X9	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U3 -X10	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U3 -X11	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U3 -FB1	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens	SIE.5SV3311-6	
=ESS.ACC.F01.K01.U3 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F01.K01.U3 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F01.K01.U3 -FC3	1	SITOP PSE200U	6EP1961-2BA11	Siemens	SIE.6EP1961-2BA11	
=ESS.ACC.F01.K01.U3 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F01.K01.U3 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F01.K01.U3 -K1	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K2	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K3	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K4	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K5	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K6	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K7	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

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							3



Parts list

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=ESS.ACC.F01.K01.U3 -K8	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K9	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K10	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K11	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K12	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K13	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K14	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K15	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K16	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

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				APPROVED BY	DATE	Parts list	Preliminary
						FUNCTION	PAGE SIZE
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						FEB-020ROW:CNPW-U-001	PAGE SCALE
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Parts list

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=ESS.ACC.F01.K01.U3 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U3 -KF1	1	CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0	Siemens	SIE.6ES7518-4FP00-0AB0	
=ESS.ACC.F01.K01.U3 -KF1	1	MOUNTING RAIL 482MM (19")	6ES7590-1AE80-0AA0	Siemens	SIE.6ES7590-1AE80-0AA0	
=ESS.ACC.F01.K01.U3 -KF2	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CNO / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CNO+BA_2xRJ45	
=ESS.ACC.F01.K01.U3 -KF3	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U3 -KF4	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U3 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U3 -KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U3 -KF7	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U3 -KF8	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U3 -KF9	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U3 -KF10	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	

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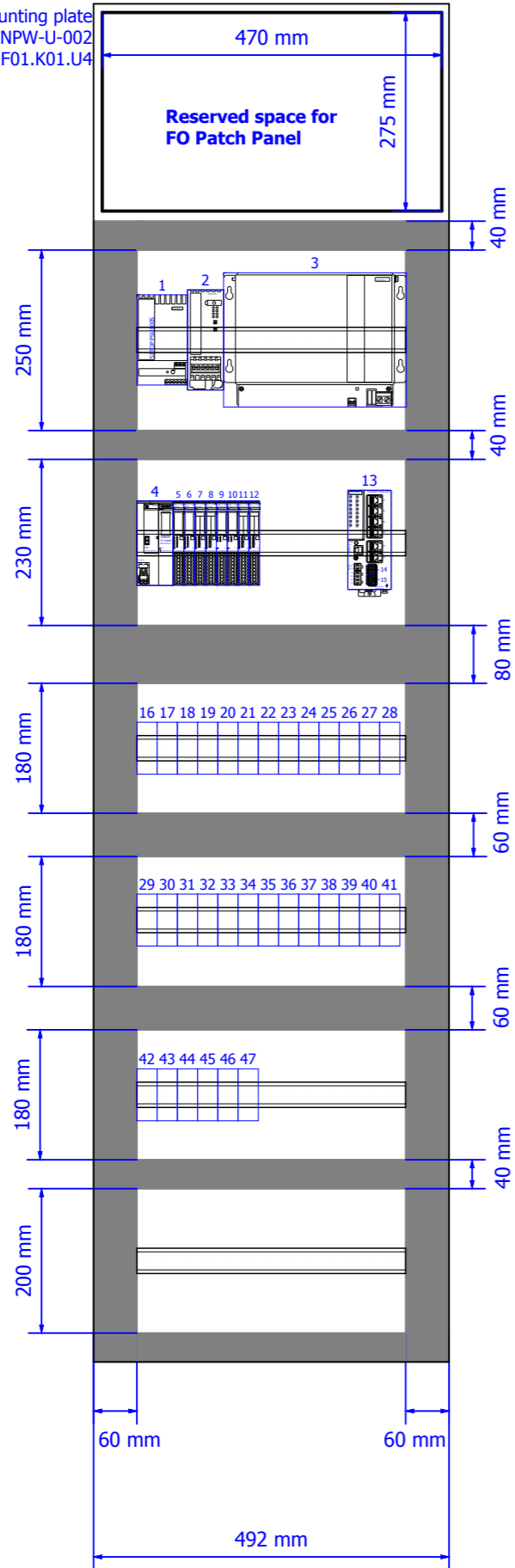
Parts list

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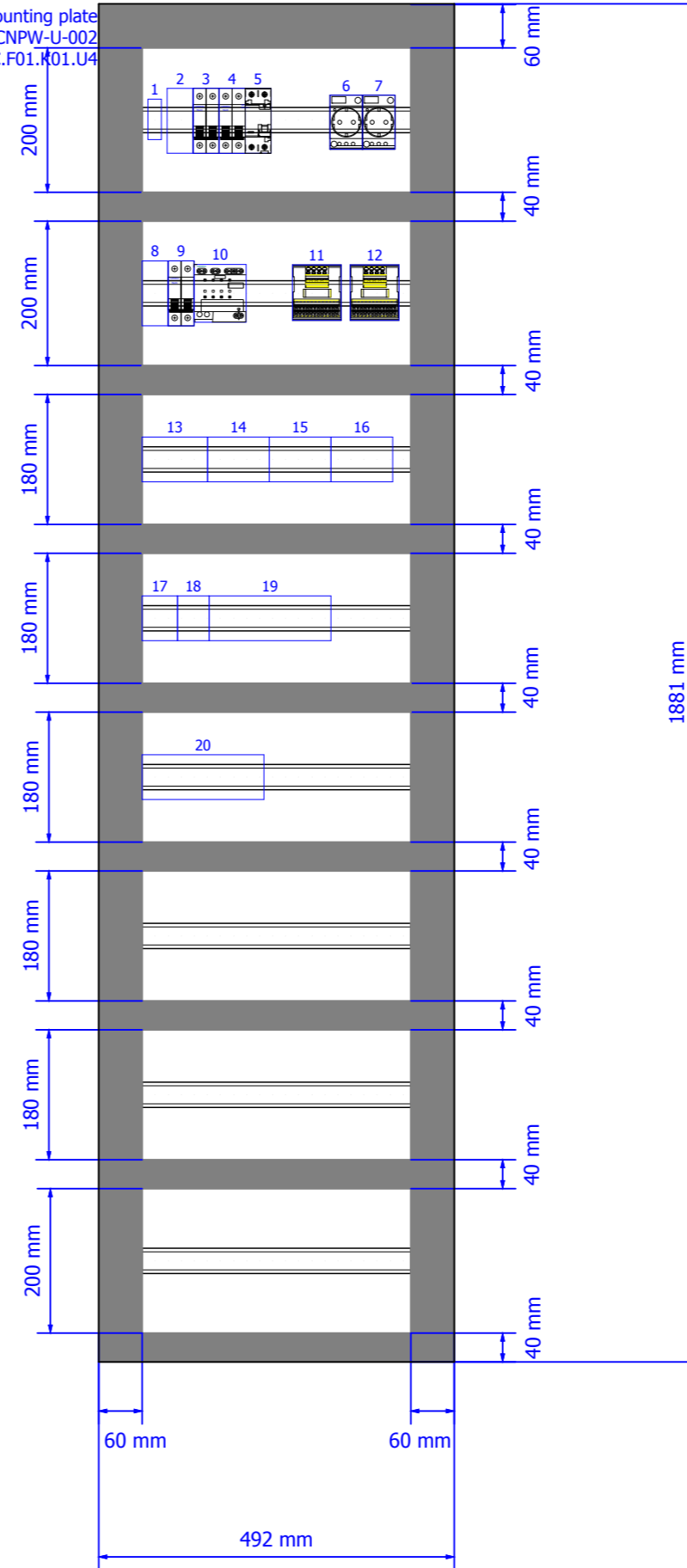
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=ESS.ACC.F01.K01.U3 -QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F01.K01.U3 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
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=ESS.ACC.F01.K01.U3 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
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=ESS.ACC.F01.K01.U3 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F01.K01.U3 -XG2	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	

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-Front mounting plate
FEB-020ROW:CNPW-U-002
ACC.F01.K01.U4



-Back mounting plate
FEB-020ROW:CNPW-U-002
ACC.F01.K01.U4



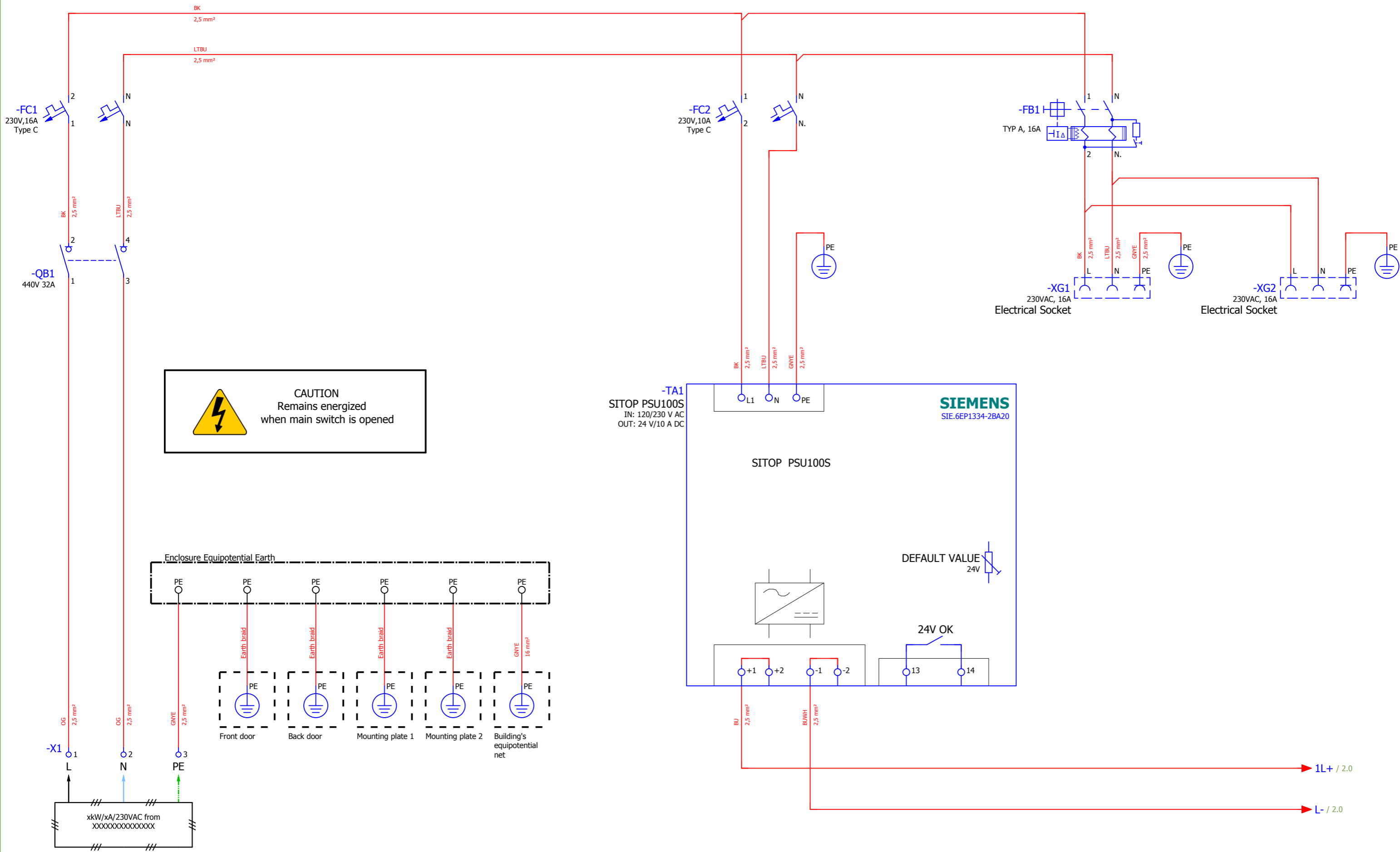
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DRAWING TITLE
Accelerator PSS

PAGE TYPE
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FUNCTION
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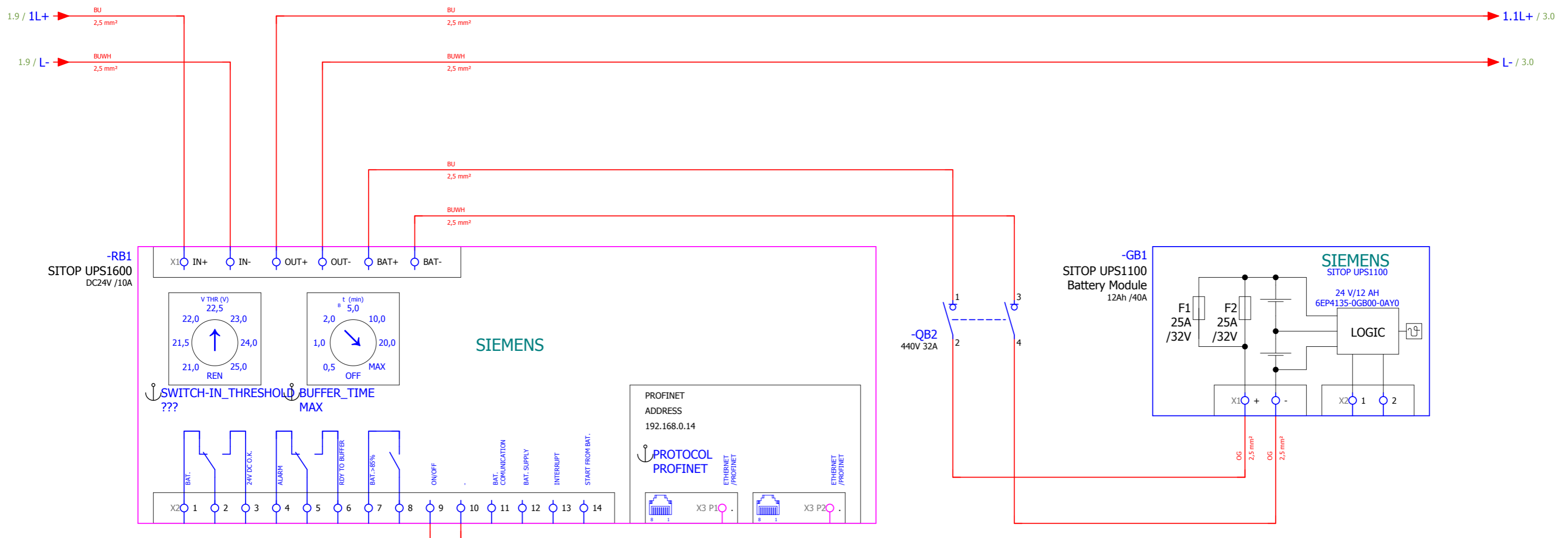
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CAUTION
Remains energized
when main switch is opened

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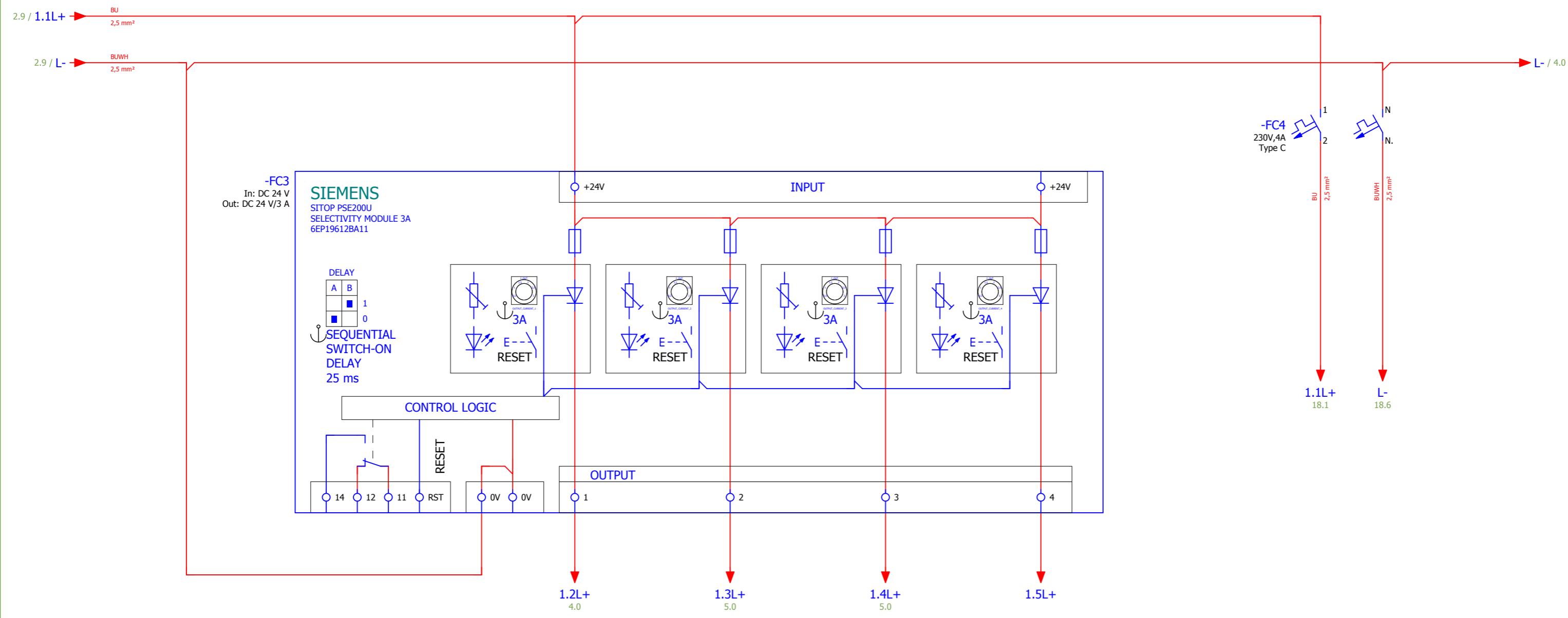
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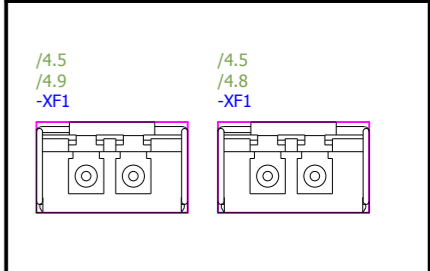
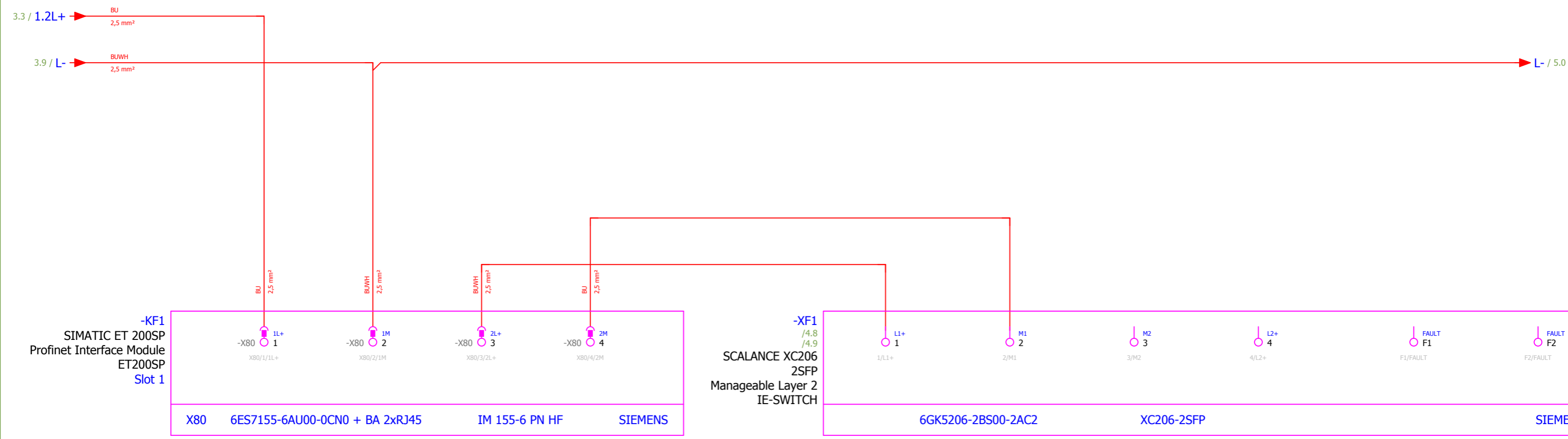
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**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

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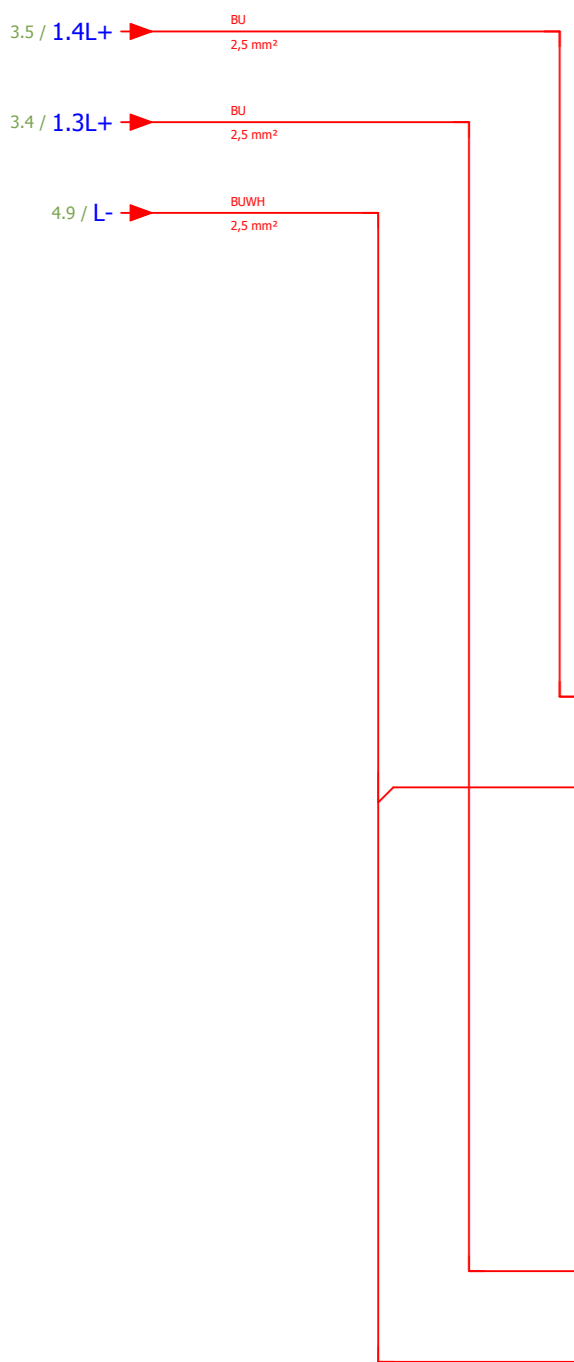


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-KF6
/12.2
SIMATIC ET 200SP
Digital output module
F-DQ 4x24VDC/2A
Slot 6

6ES7136-6DB00-0CA0 + BU15-P16+A0+2D	F-DQ 4X24VDC/2A PM HF	SIEMENS
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L+ 24VDC M 0VDC

-KF2
/6.2
SIMATIC ET 200SP
Digital input module
F-DI 8x24VDC
Slot 2

6ES7136-6BA00-0CA0 + BU15-P16+A0+2D	F-DI 8x24VDC HF	SIEMENS
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L+ 24VDC M 0VDC

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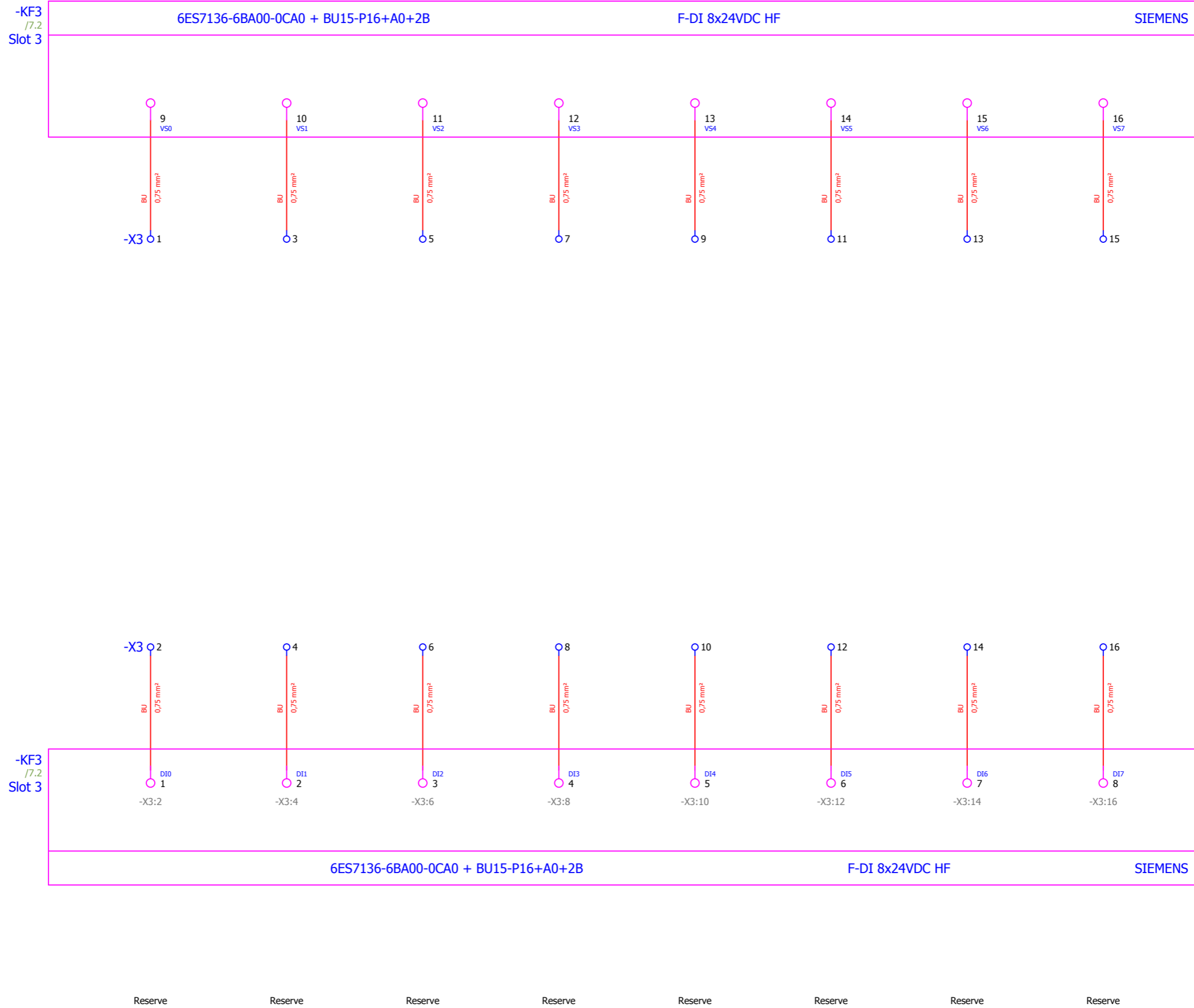
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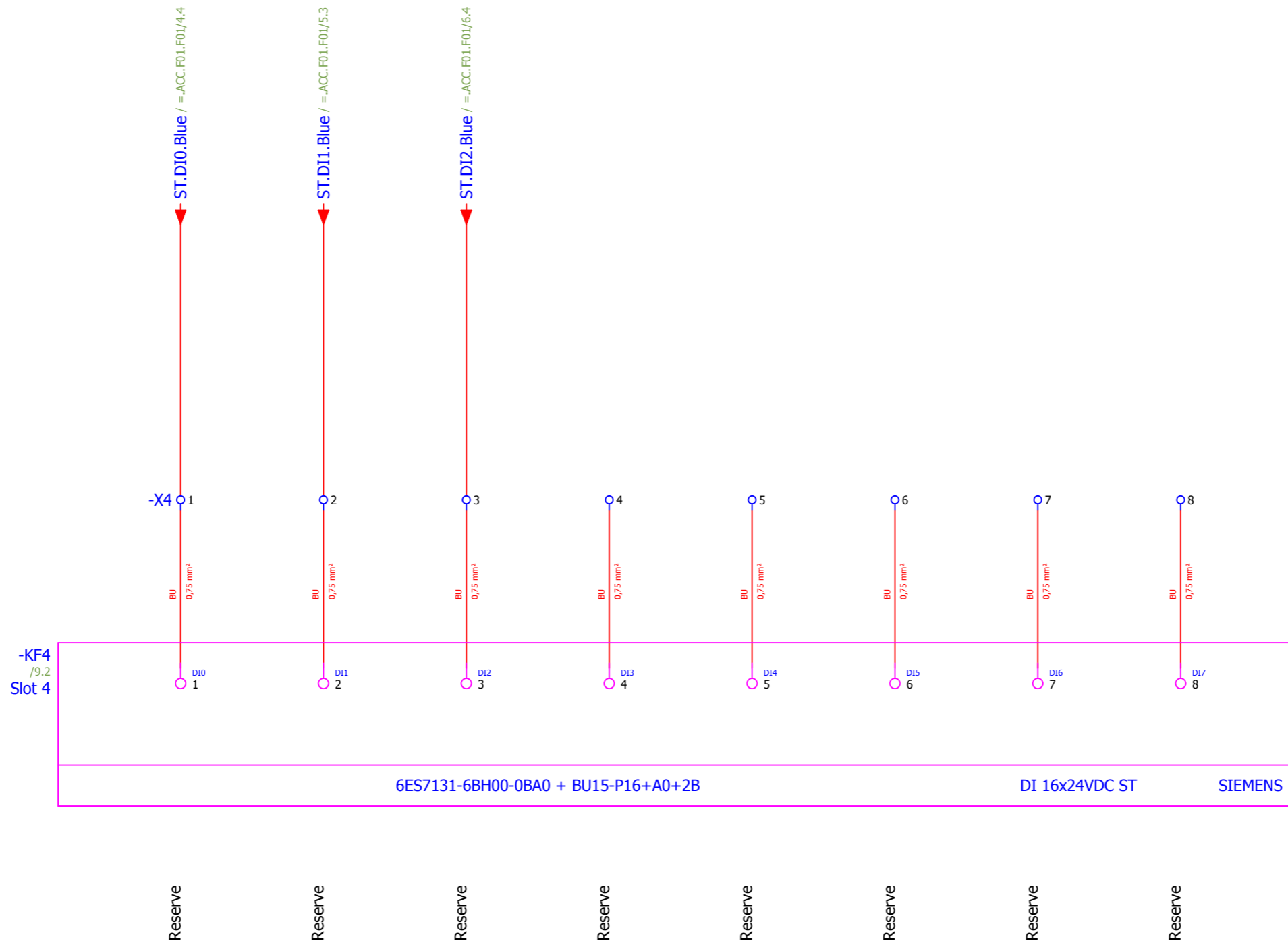


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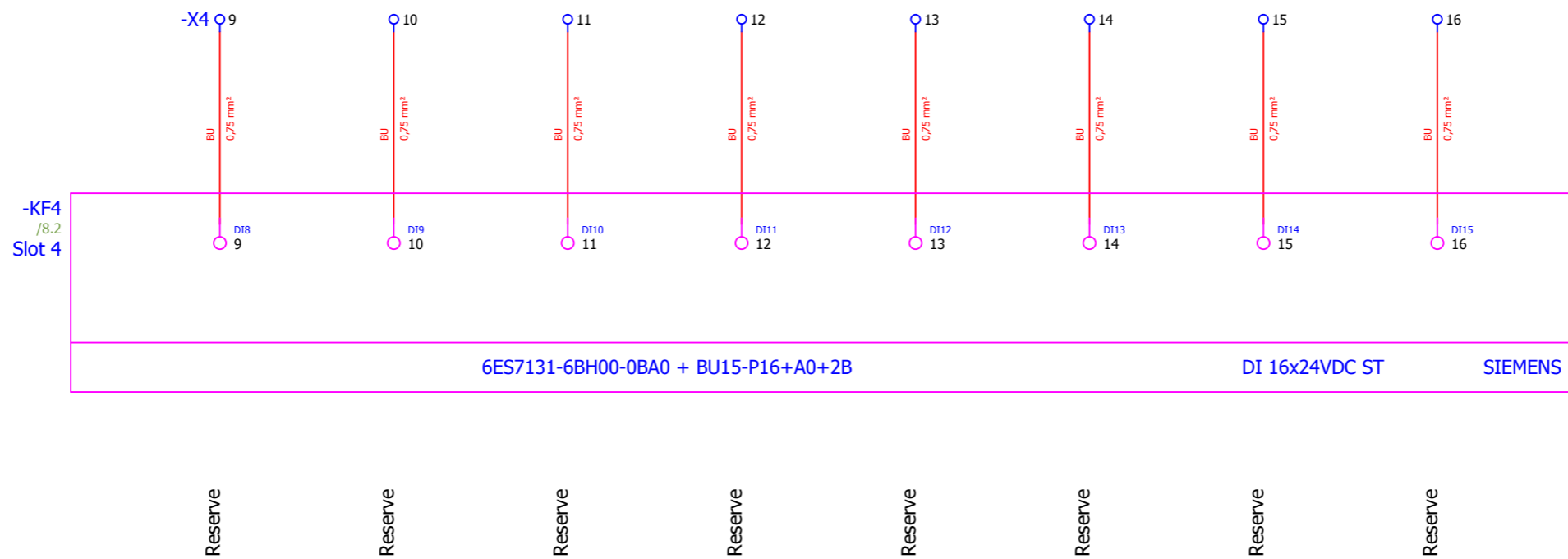
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
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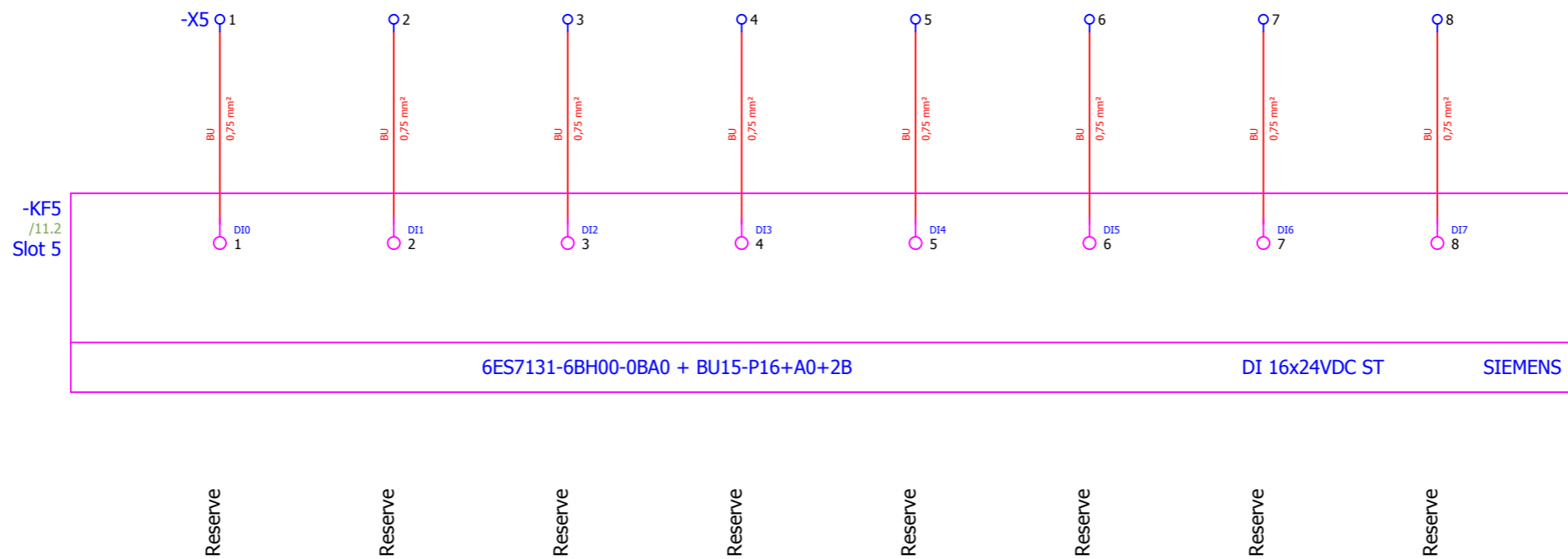
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

DRAWING NUMBER (Doc) ESS-0151602			
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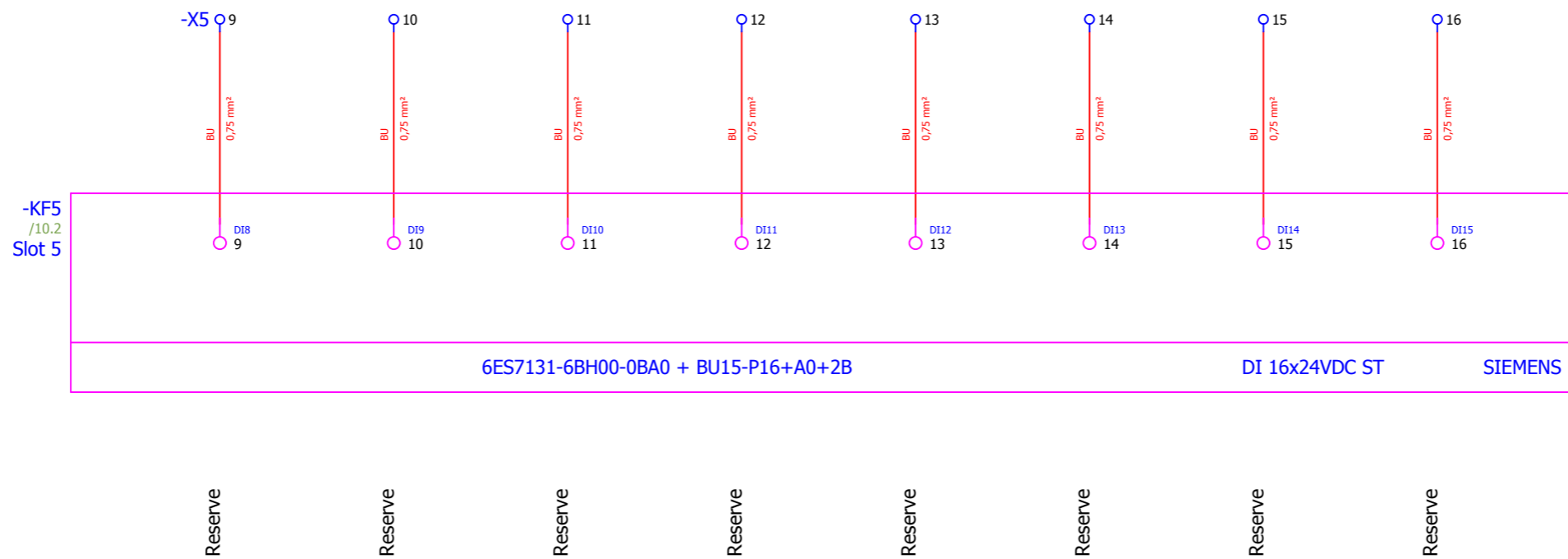


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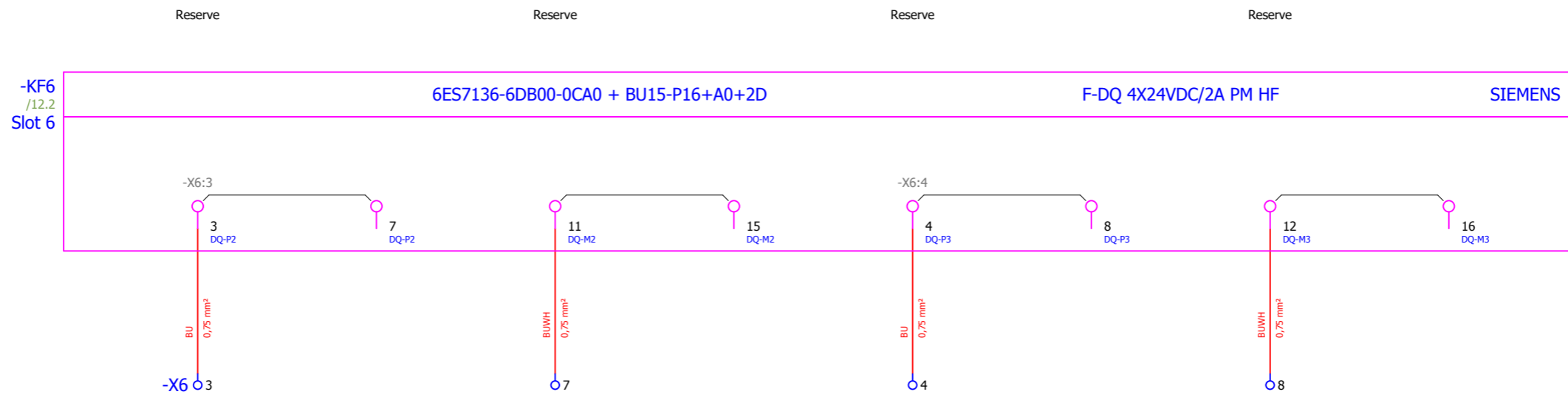
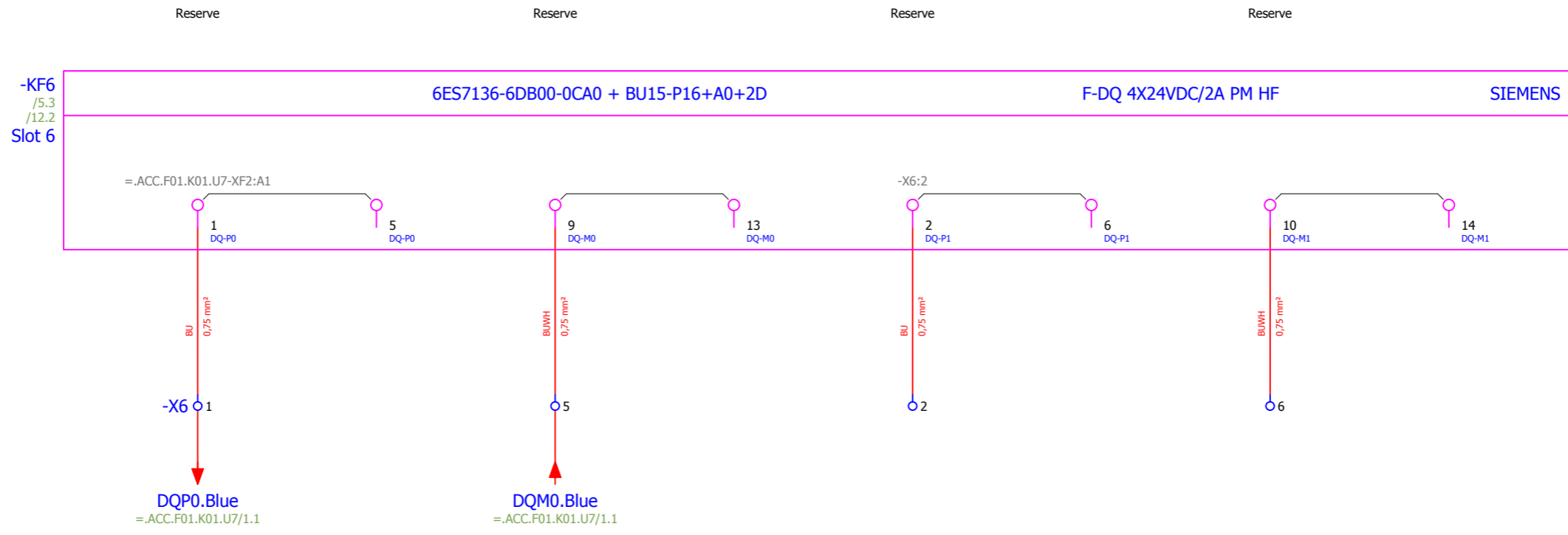
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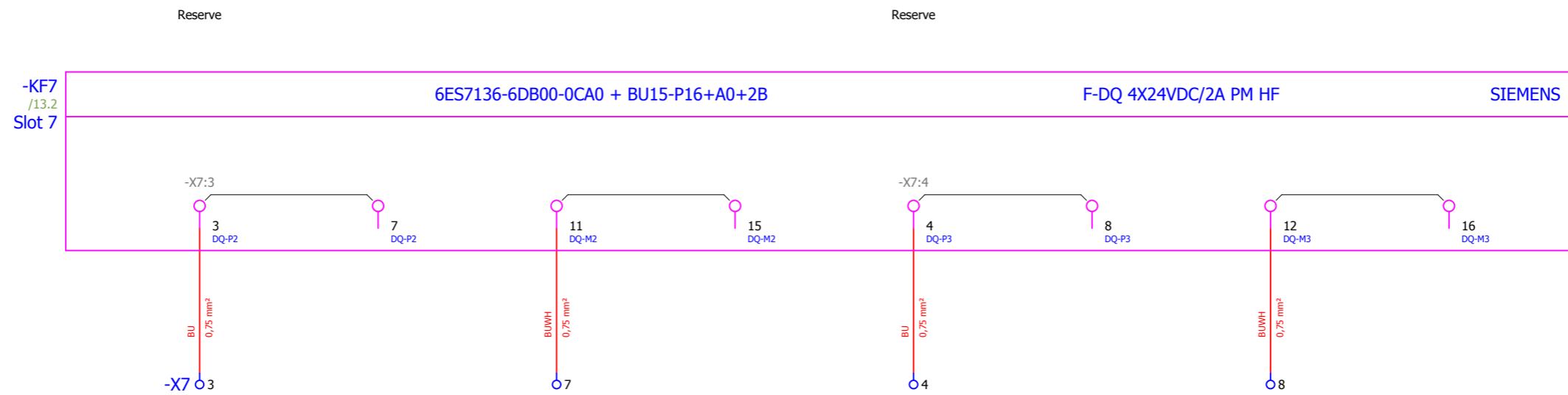
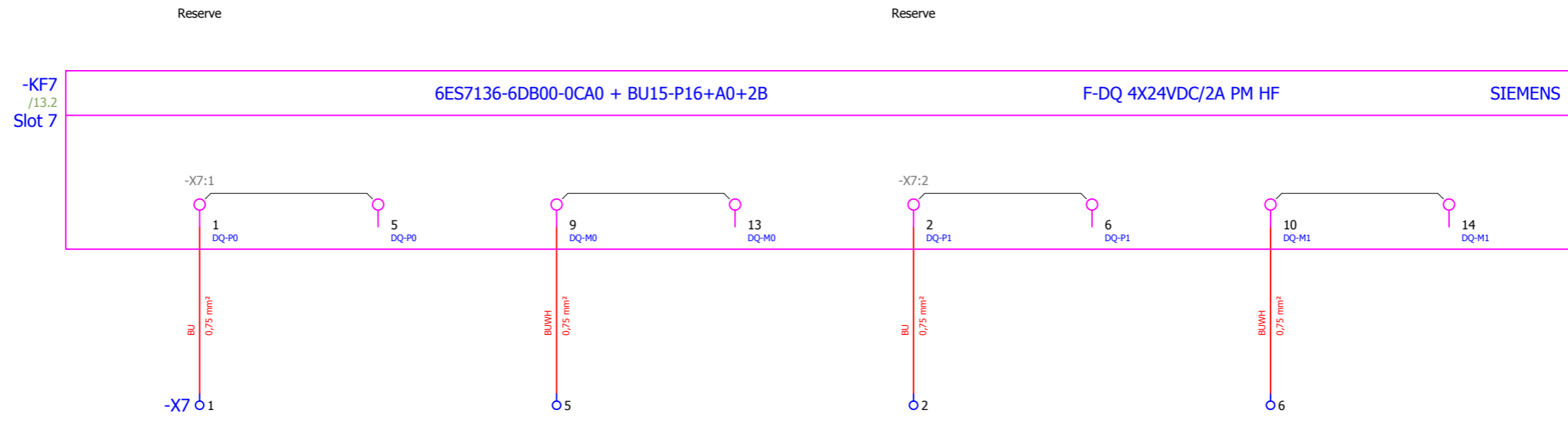
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

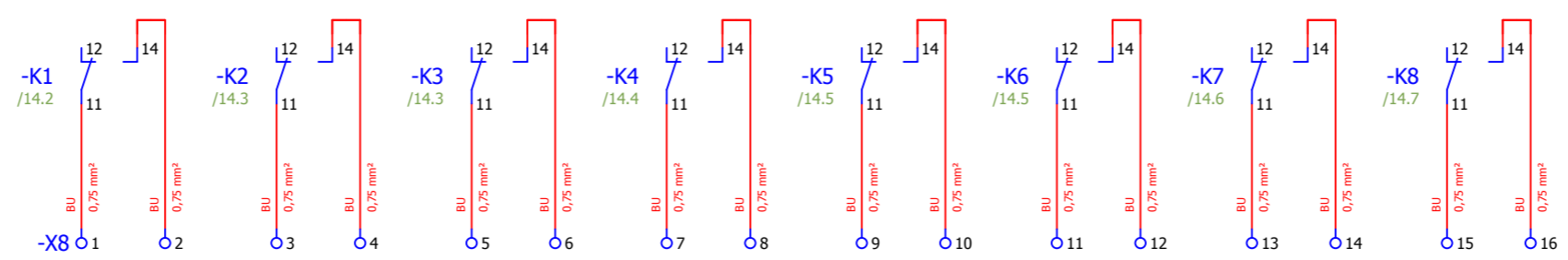
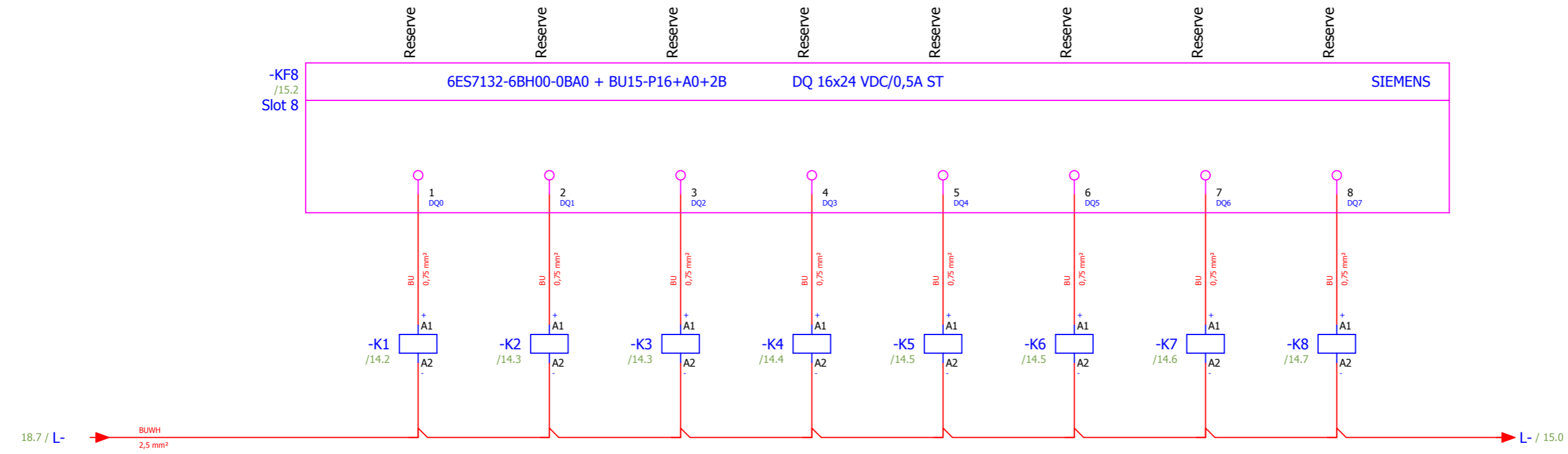
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY ATZ	DATE	DRAWING TITLE Accelerator PSS	DRAWING NUMBER (Doc) ESS-0151602			
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002	SHEET =ESS.ACC.F01.K01.U4&FS/12			
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
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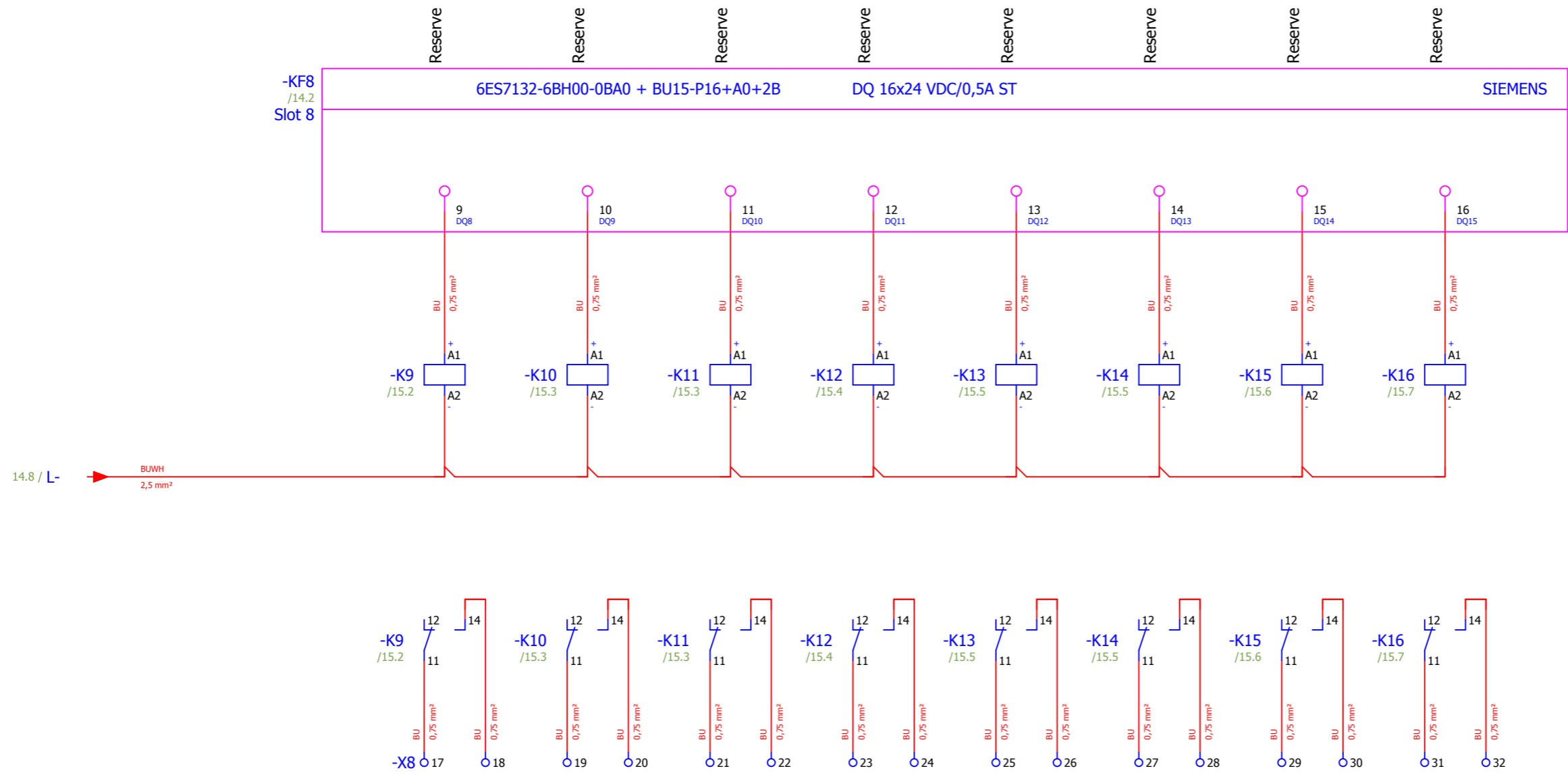
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

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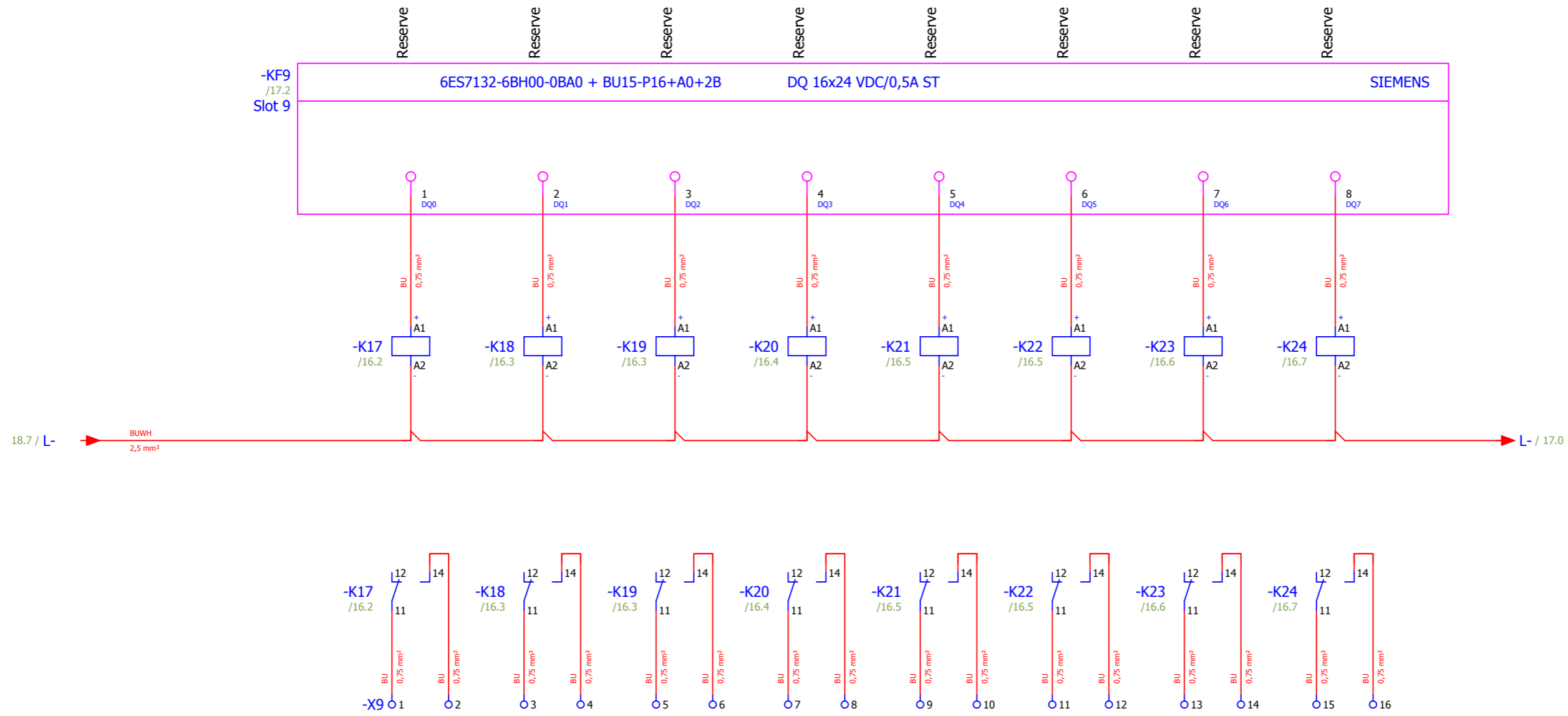
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

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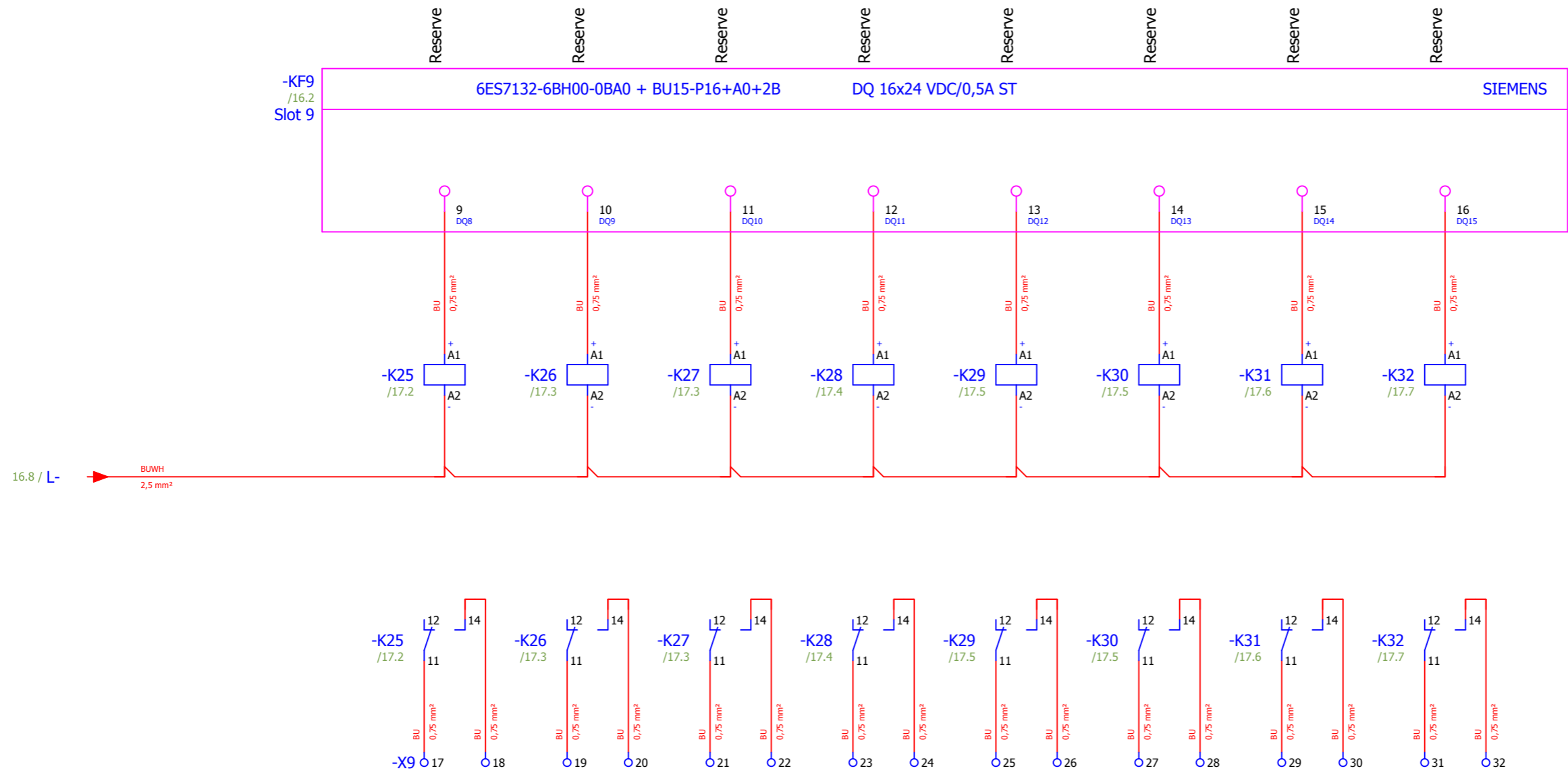
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PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

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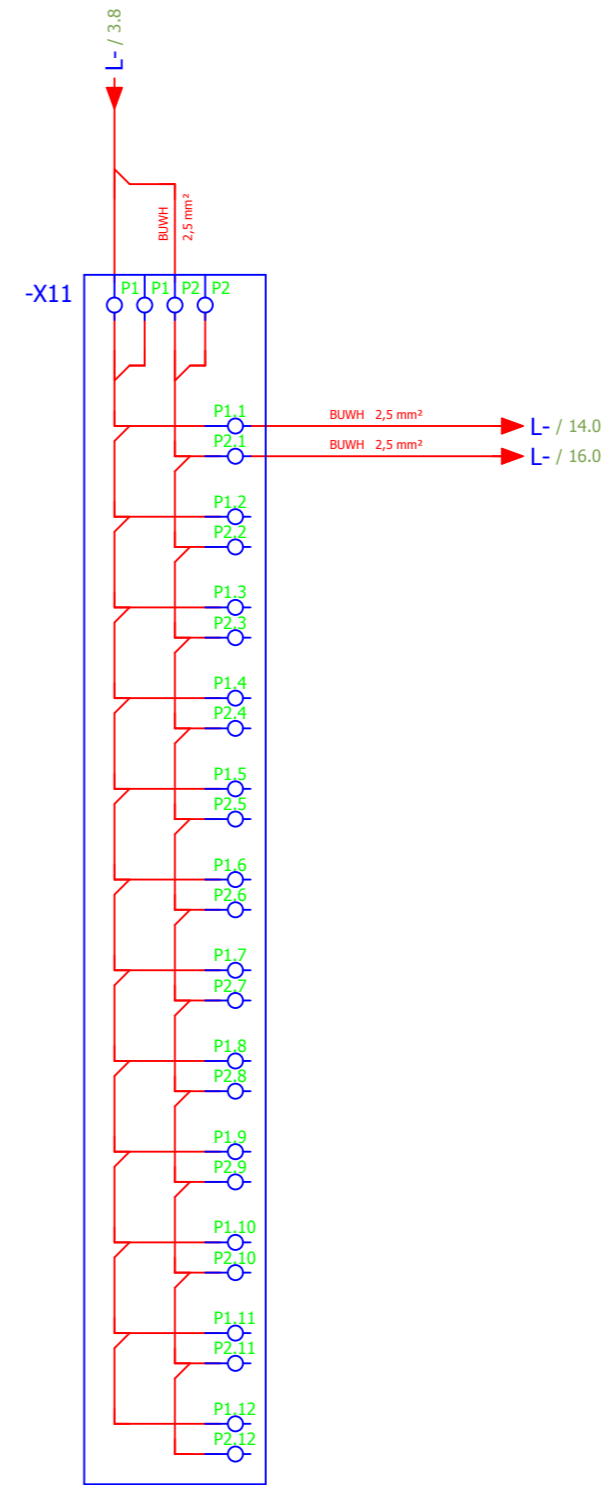
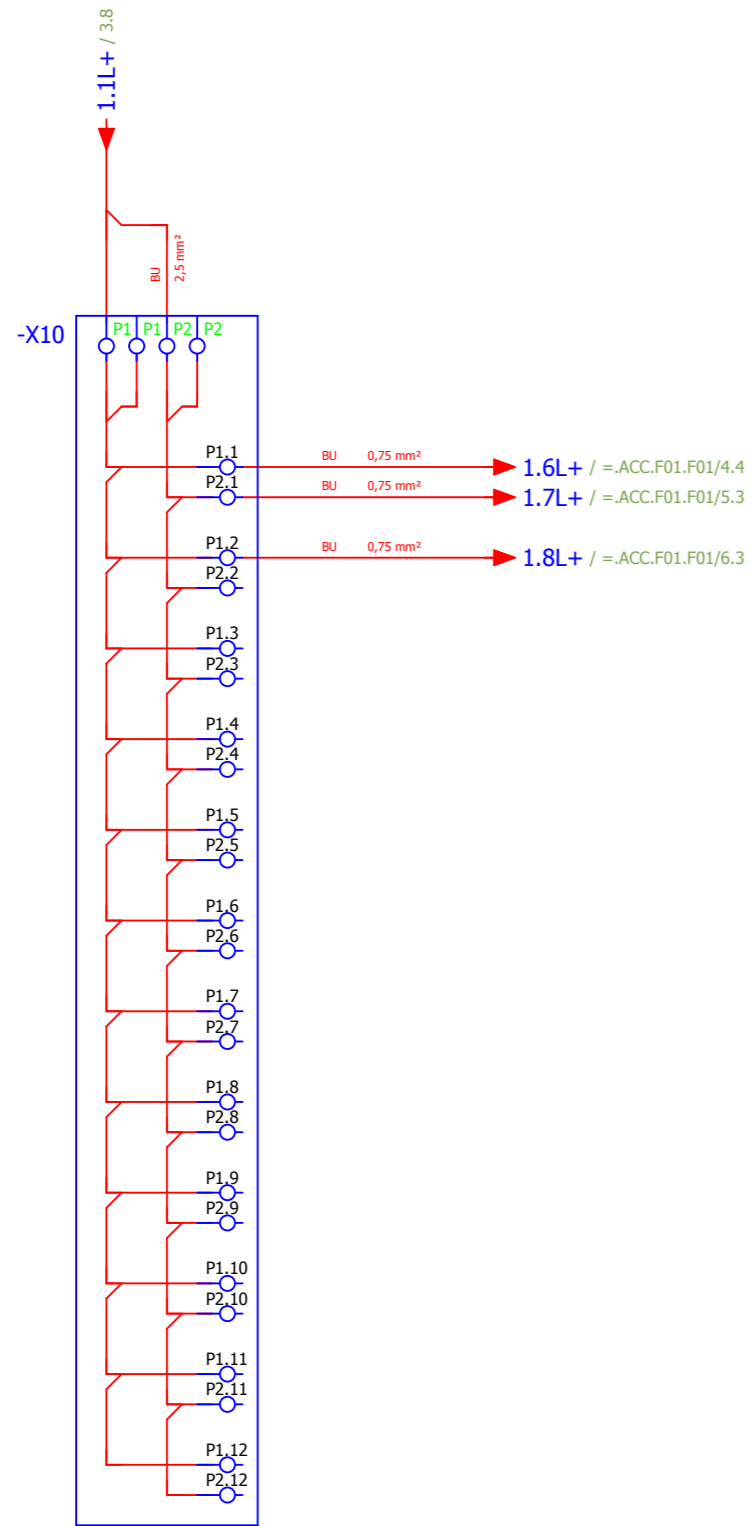
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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

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DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002

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Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U4 -X1	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F01.K01.U4 -X1	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F01.K01.U4 -X1	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F01.K01.U4 -X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X2	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U4 -X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X6	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X6	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U4 -X6	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X7	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X7	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X8	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

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				 EPLAN electric 8 v2.5.4			PAGE TYPE Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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Parts list

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=ESS.ACC.F01.K01.U4 -X8	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X9	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U4 -X9	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U4 -X10	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U4 -X11	1	Potential distributors	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F01.K01.U4 -FB1	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens	SIE.5SV3311-6	
=ESS.ACC.F01.K01.U4 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F01.K01.U4 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F01.K01.U4 -FC3	1	SITOP PSE200U	6EP1961-2BA11	Siemens	SIE.6EP1961-2BA11	
=ESS.ACC.F01.K01.U4 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F01.K01.U4 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F01.K01.U4 -K1	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K2	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K3	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K4	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K5	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K6	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K7	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

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						Accelerator PSS	ESS-0151602
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Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U4 -K8	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K9	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K10	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K11	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K12	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K13	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K14	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K15	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K16	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>			Accelerator PSS	ESS-0151602			
				 EPLAN electric 8 v2.5.4			PAGE TYPE Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				DESIGN SITE ESS			FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002	Preliminary	A3	1	
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Parts list

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=ESS.ACC.F01.K01.U4 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F01.K01.U4 -KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	
=ESS.ACC.F01.K01.U4 -KF2	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U4 -KF3	1	F-DI 8X24V DC HF / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7136-6BA00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6BA00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -KF6	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A 0+2D	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2D	
=ESS.ACC.F01.K01.U4 -KF7	1	F-DQ 4X24V DC/2A PM HF / BASEUNIT TYPE A0, BU15-P16+A 0+2B	6ES7136-6DB00-0CA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7136-6DB00-0CA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -KF8	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -KF9	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F01.K01.U4 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F01.K01.U4 -QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>			Accelerator PSS	ESS-0151602			
				 ePLAN electric 8 v2.5.4			PAGE TYPE Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				APPROVED BY			FUNCTION BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002	Preliminary	A3	1	
				DESIGN SITE ESS				SHEET =ESS.ACC.F01.K01.U4&PC/4			
								NEXT 5			

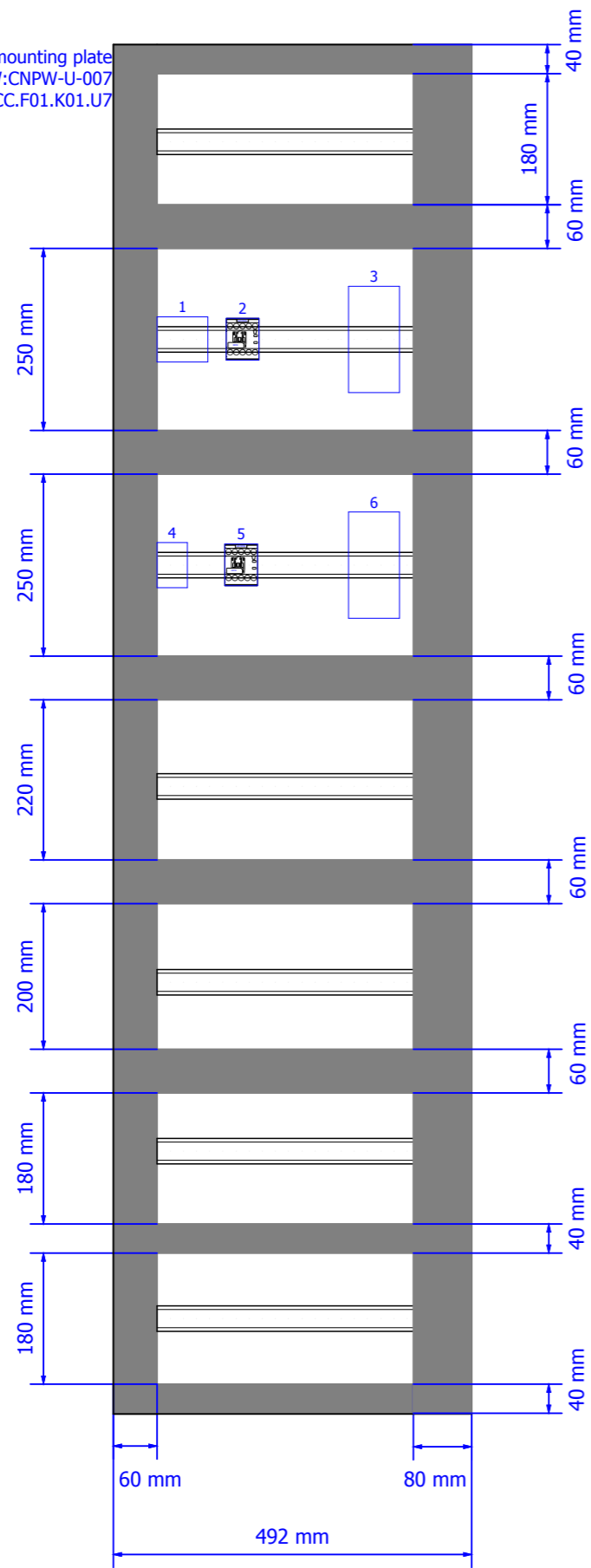
Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U4 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F01.K01.U4 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	
=ESS.ACC.F01.K01.U4 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F01.K01.U4 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F01.K01.U4 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F01.K01.U4 -XG2	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602									
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	Parts list	<table border="1"> <tr> <td>LIFECYCLE LABEL</td> <td>PAGE SIZE</td> <td>PAGE SCALE</td> <td>REV</td> </tr> <tr> <td>Preliminary</td> <td>A3</td> <td>1</td> <td></td> </tr> </table>	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	Preliminary	A3	1		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV														
Preliminary	A3	1															
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE			<table border="1"> <tr> <td>FUNCTION</td> </tr> <tr> <td>BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002</td> </tr> </table>	FUNCTION	BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002	<table border="1"> <tr> <td>SHEET</td> <td colspan="3">=ESS.ACC.F01.K01.U4&PC/5</td> </tr> <tr> <td>NEXT</td> <td colspan="3">=.ACC.F01.K01.U7&LU/1</td> </tr> </table>	SHEET	=ESS.ACC.F01.K01.U4&PC/5			NEXT	=.ACC.F01.K01.U7&LU/1		
FUNCTION																	
BLUE SYSTEM RIO RACK 1 FEB-020ROW:CNPW-U-002																	
SHEET	=ESS.ACC.F01.K01.U4&PC/5																
NEXT	=.ACC.F01.K01.U7&LU/1																
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 <small>v2.5.4</small>	DESIGN SITE	ESS											

-Front mounting plate
FEB-010ROW:CNPW-U-007
ACC.F01.K01.U7



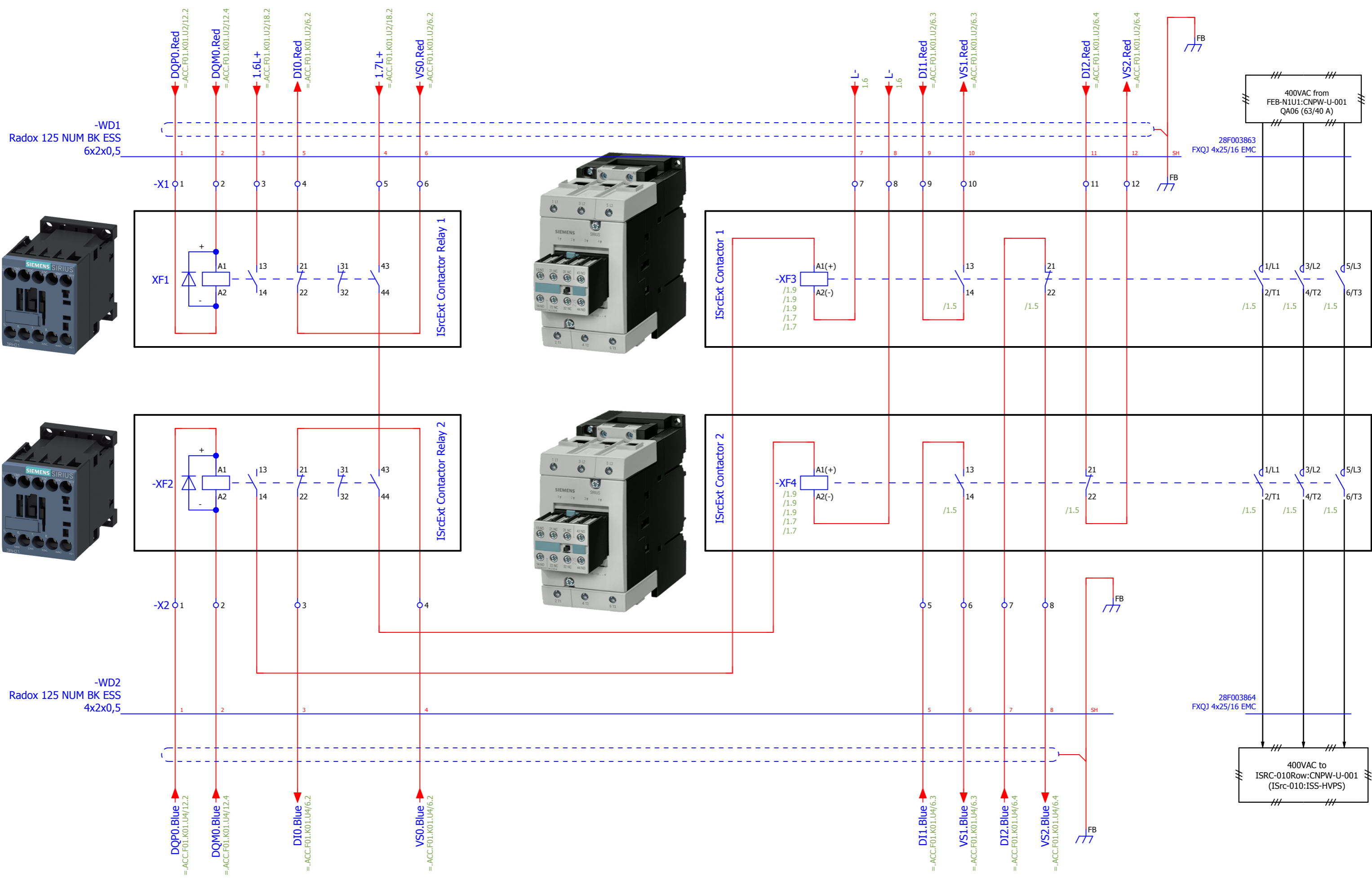
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DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Panel layout
FUNCTION HV PS Contactors Rack FEB-010ROW:CNPW-U-007

DRAWING NUMBER (Doc) ESS-0151602	PAGE SIZE A3	PAGE SCALE 9	REV
LIFECYCLE LABEL Preliminary	SHEET =ESS.ACC.F01.K01.U7&LU/1		
NEXT 2			



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DRAWN BY ATZ	DATE
CHECKED BY	DATE
APPROVED BY	DATE
DESIGN SITE ESS	

DRAWING TITLE Accelerator PSS
PAGE TYPE Schematic multi-line
FUNCTION HV PS Contactors Rack FEB-010ROW:CNPW-U-007

DRAWING NUMBER (Doc) ESS-0151602	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV
SHEET =ESS.ACC.F01.K01.U7&FS/1				
NEXT &PC/1				



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F01.K01.U7 -XF3	1	Power Contactor	3RT1044-1BB44 (Manufacturer: SIEMENS)	OEZ	OEZ.3RT1044-1BB44	
=ESS.ACC.F01.K01.U7 -XF4	1	Power Contactor	3RT1044-1BB44 (Manufacturer: SIEMENS)	OEZ	OEZ.3RT1044-1BB44	
=ESS.ACC.F01.K01.U7 -X1	12	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U7 -X1	1	End clamp	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	
=ESS.ACC.F01.K01.U7 -X1	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F01.K01.U7 -X2	8	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F01.K01.U7 -XF1	1	CONTACTOR RELAY, 2NO+2NC DC 24V, W. INTEGRATED DIO DE	3RH2122-1FB40	Siemens AB	3RH2122-1FB40	
=ESS.ACC.F01.K01.U7 -XF2	1	CONTACTOR RELAY, 2NO+2NC DC 24V, W. INTEGRATED DIO DE	3RH2122-1FB40	Siemens AB	3RH2122-1FB40	

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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	Accelerator PSS	ESS-0151602			
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		DESIGN SITE	ESS	FUNCTION	Preliminary	A3	1	
							SHEET	=ESS.ACC.F01.K01.U7&PC/1			
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