

Mounting plate C22

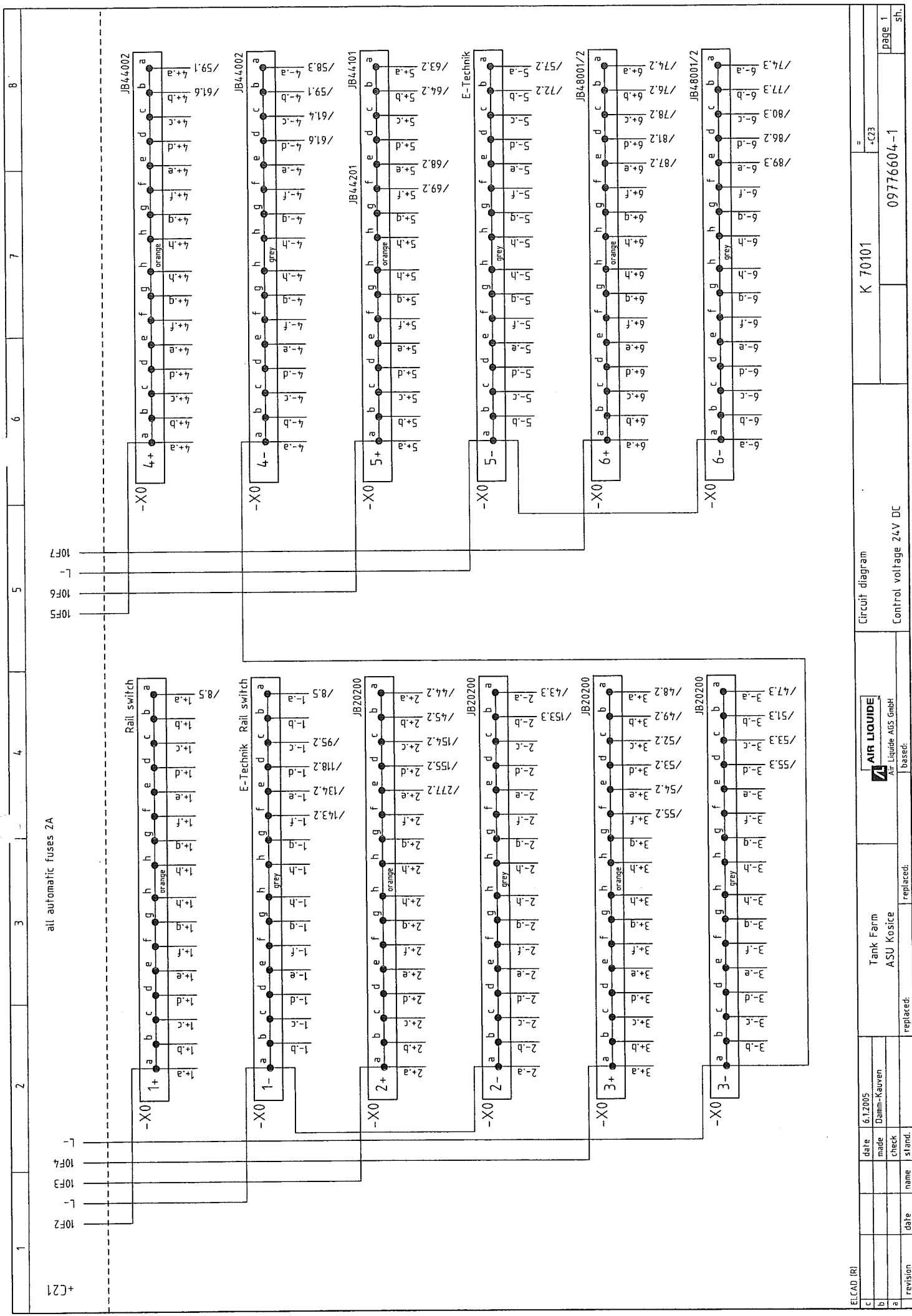
Mounting plate C23

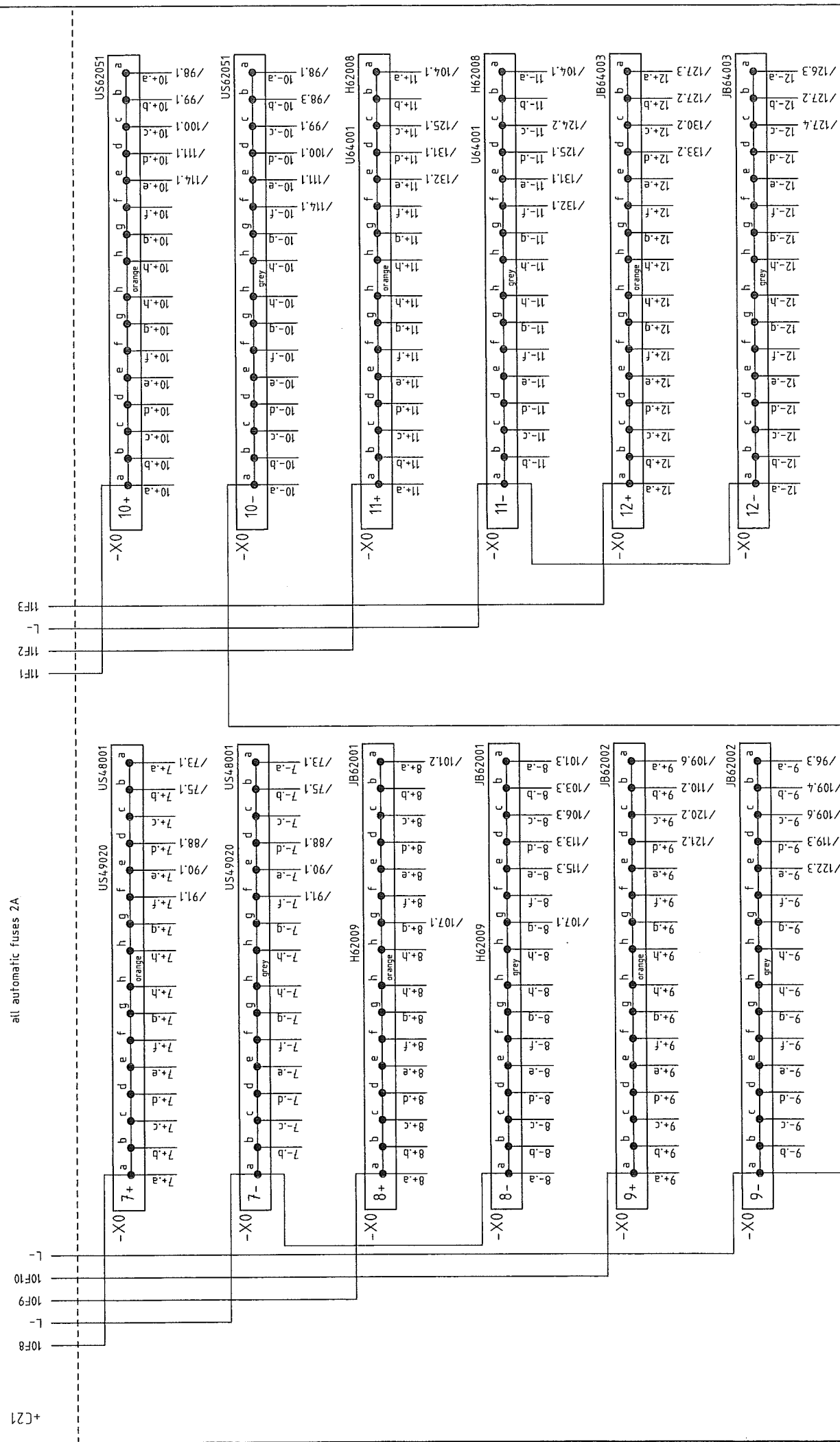
Mounting plate C24

Scale = 1 : 10  
(refer to DIN A3)

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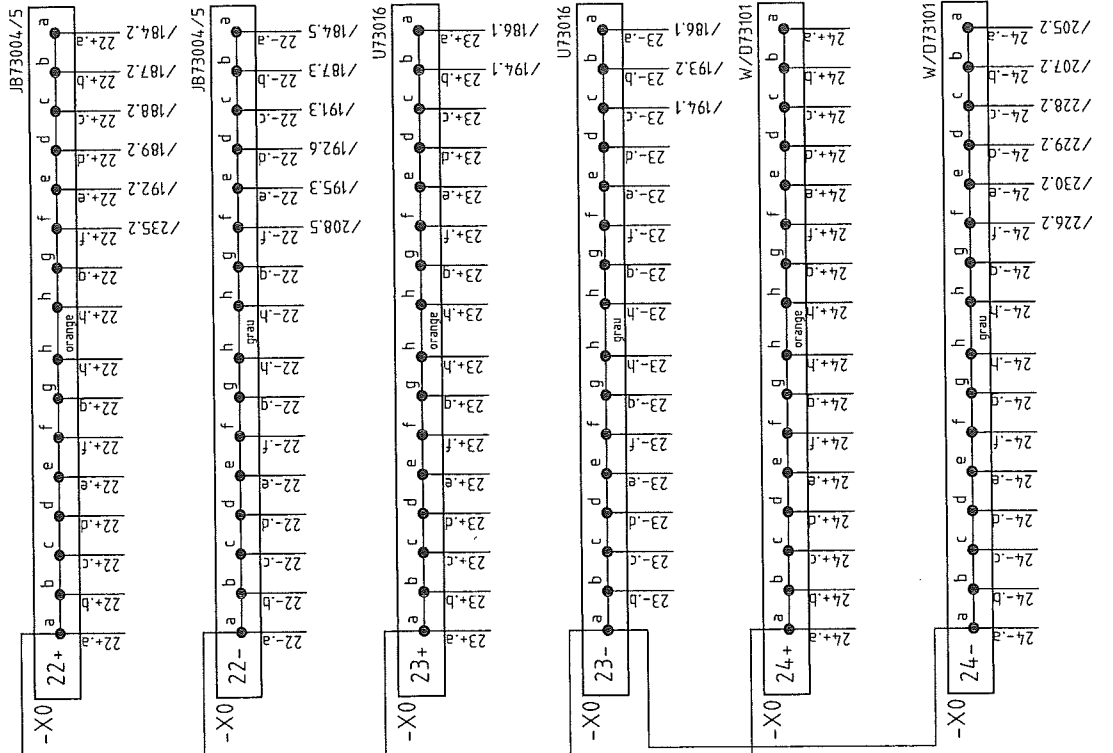
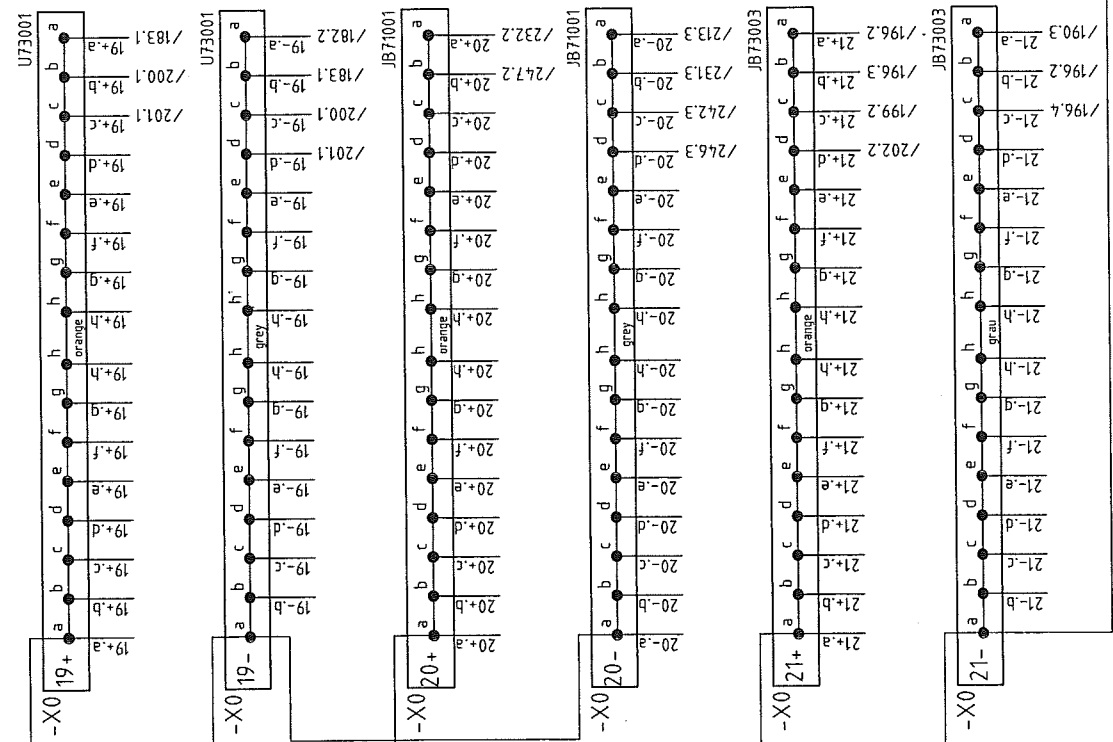
+C21



all automatic fuses 2A

12F10  
12F1  
12F2

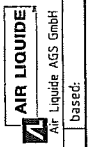
12F3  
12F4  
12F5



ELCAD (R)

revision	date	name	check	stand.
a				
b				
c				

Tank Farm  
ASU Kosice



Circuit diagram  
Control voltage 24V DC


K 70101

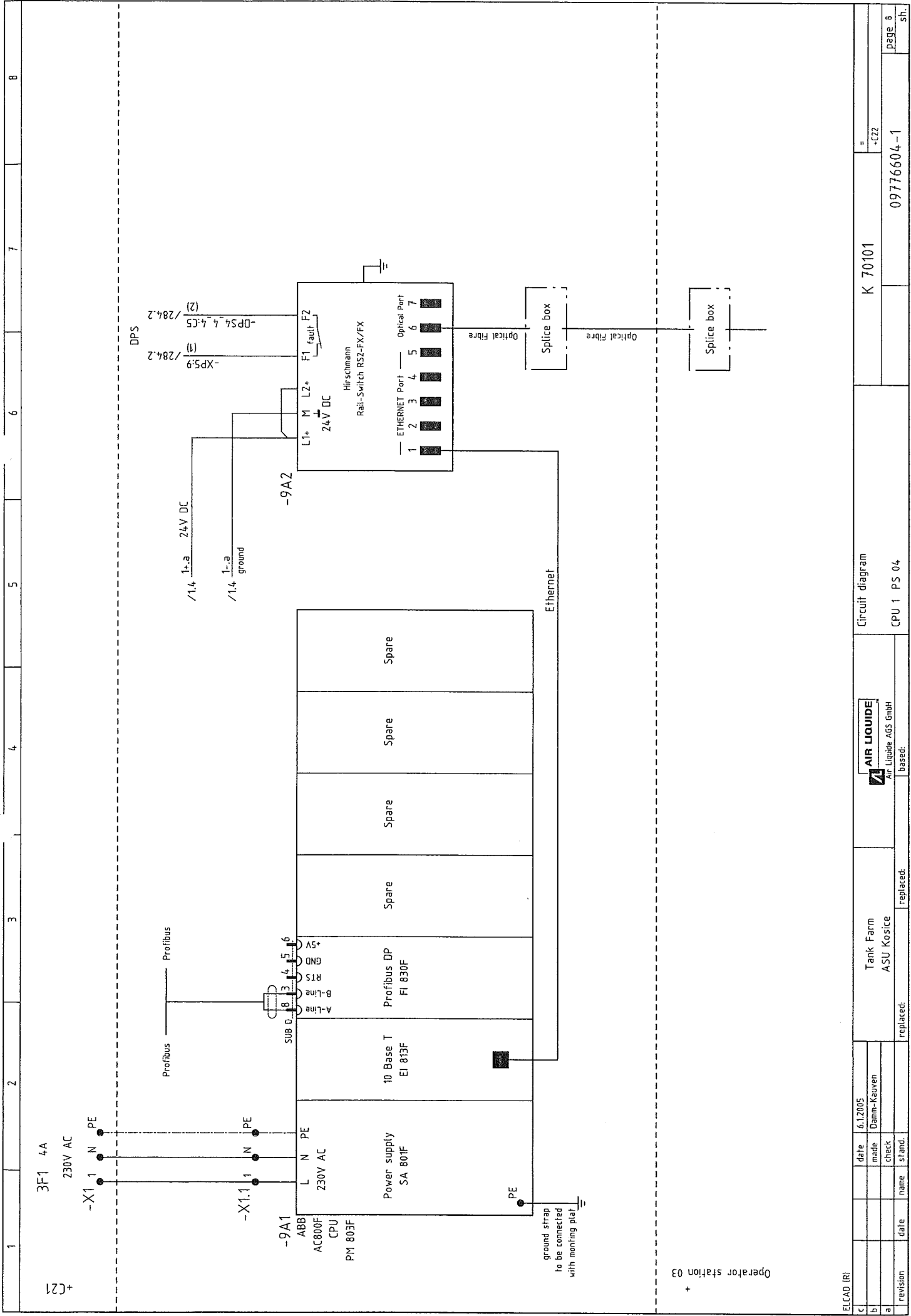
+C23



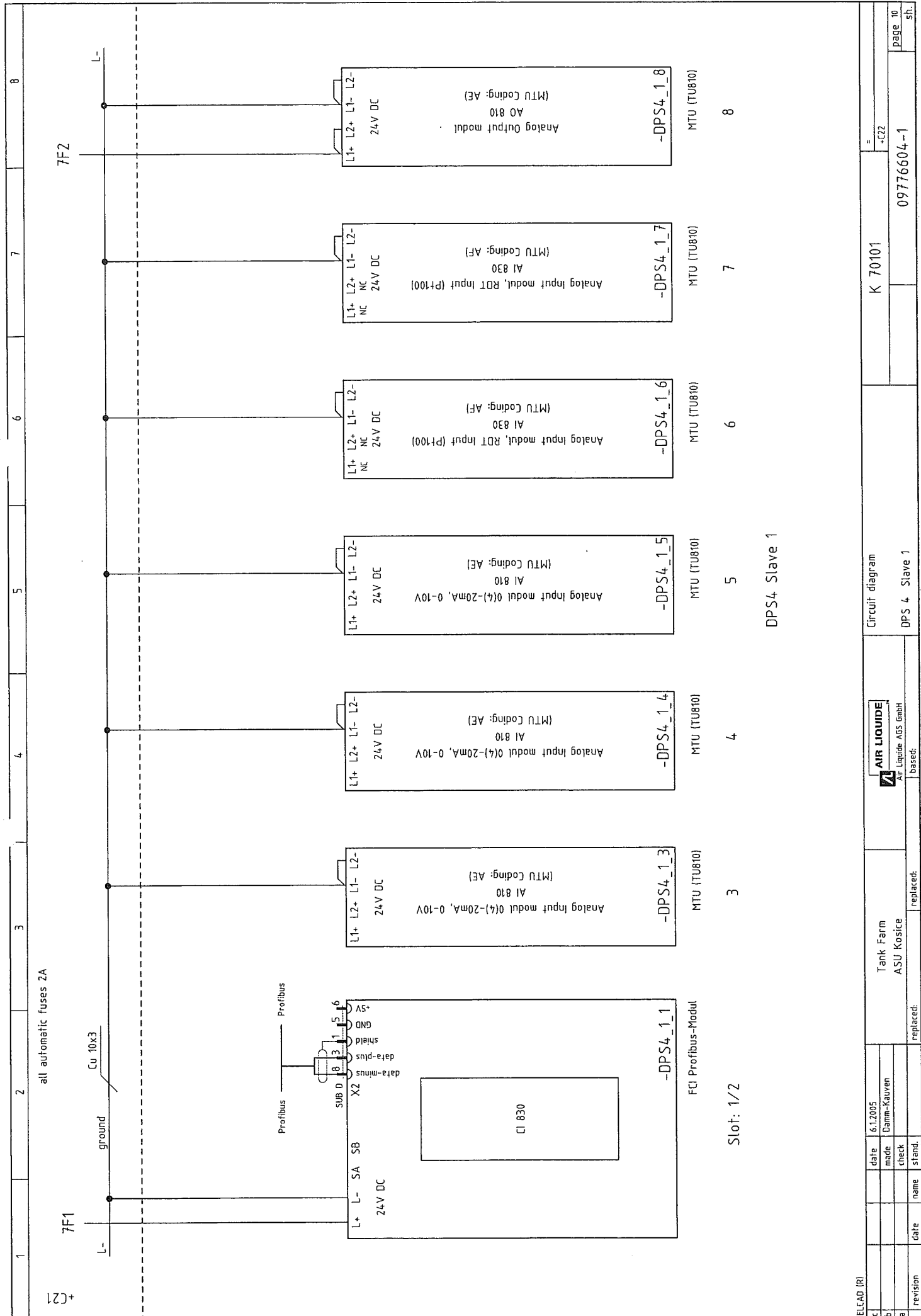


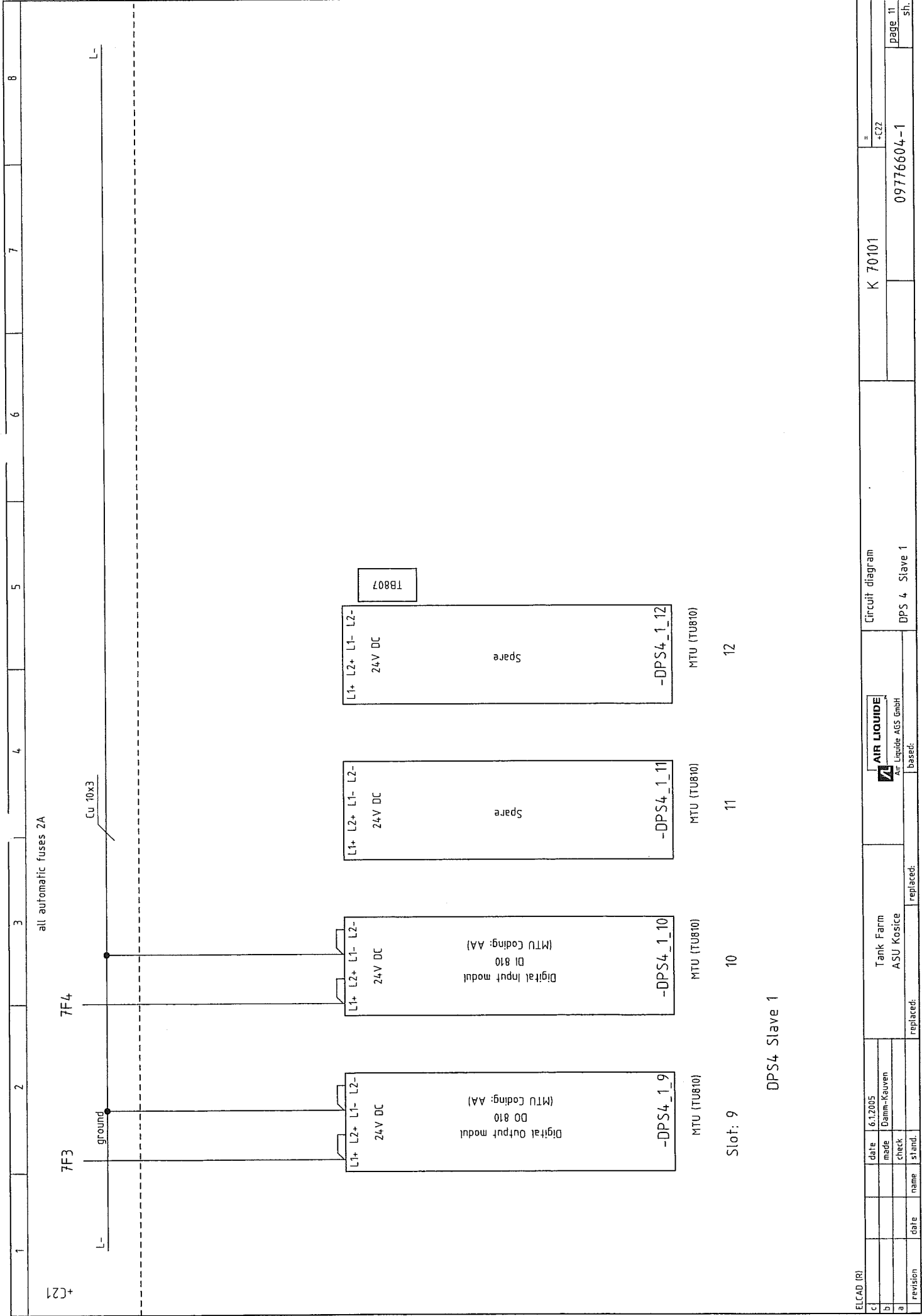
1		2		3		4		5		6		7		8	

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c																															
b																															
a	revision	date	name	check stand.	date made	6.1.2005 Damm-Kauven																									



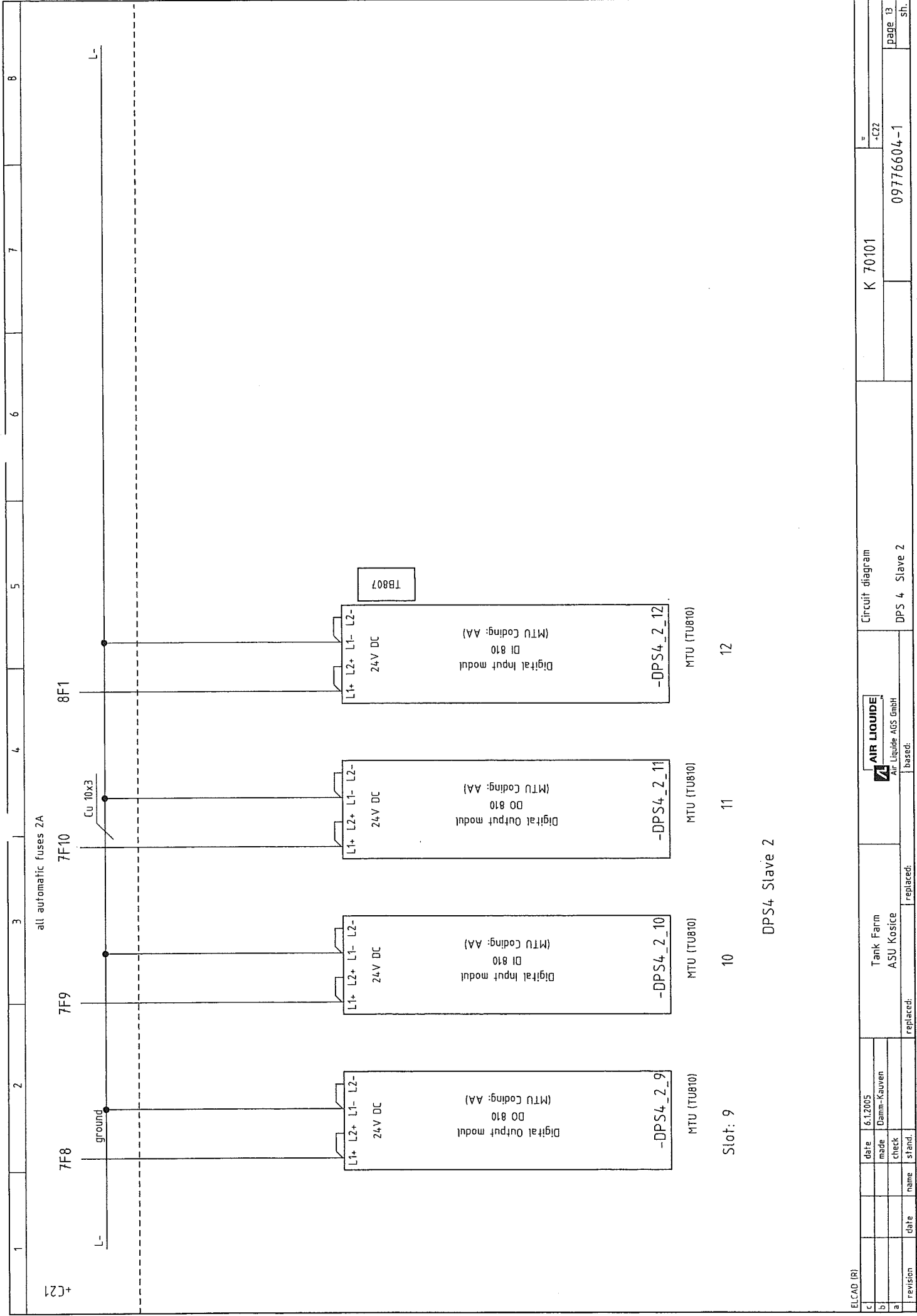
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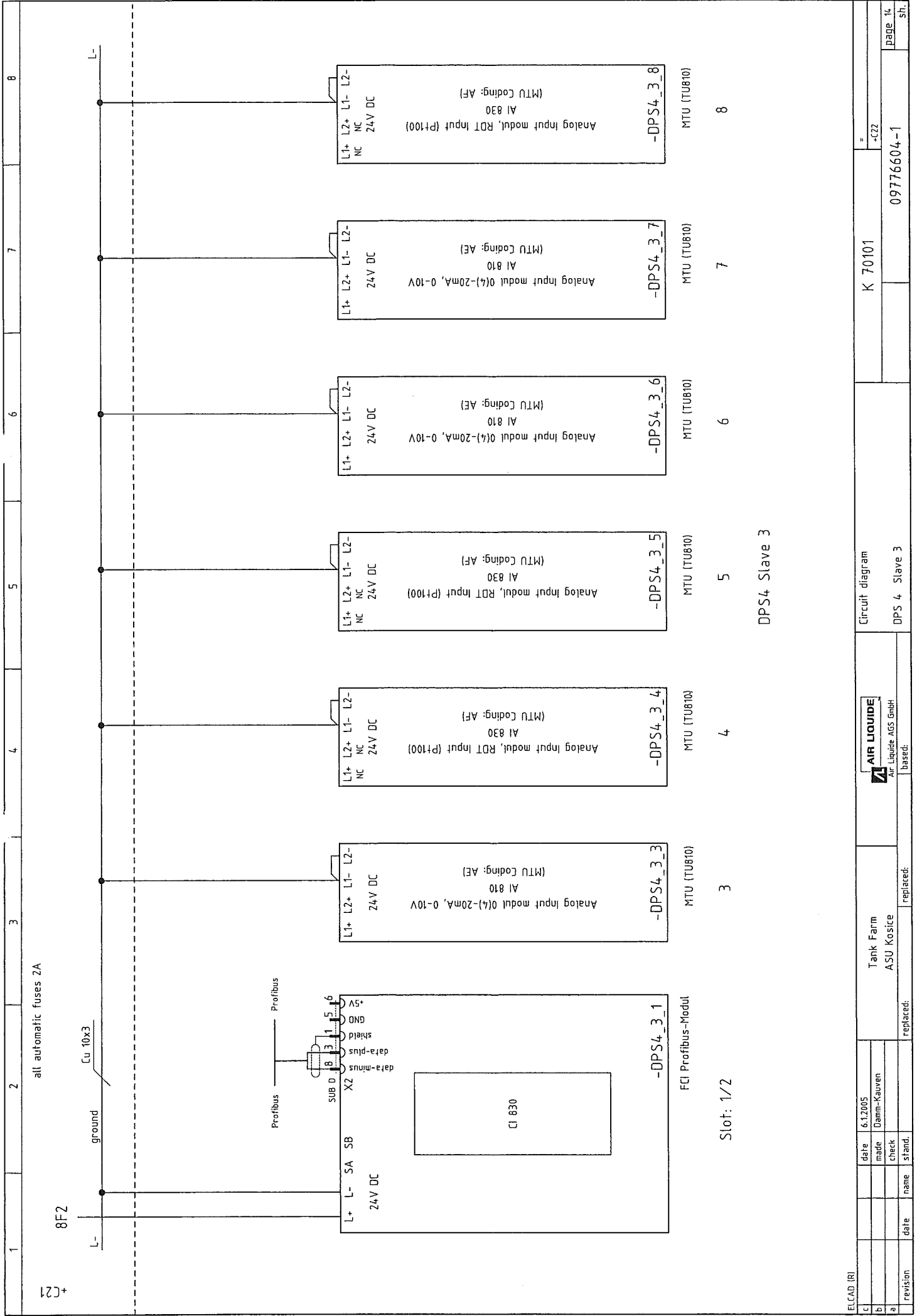




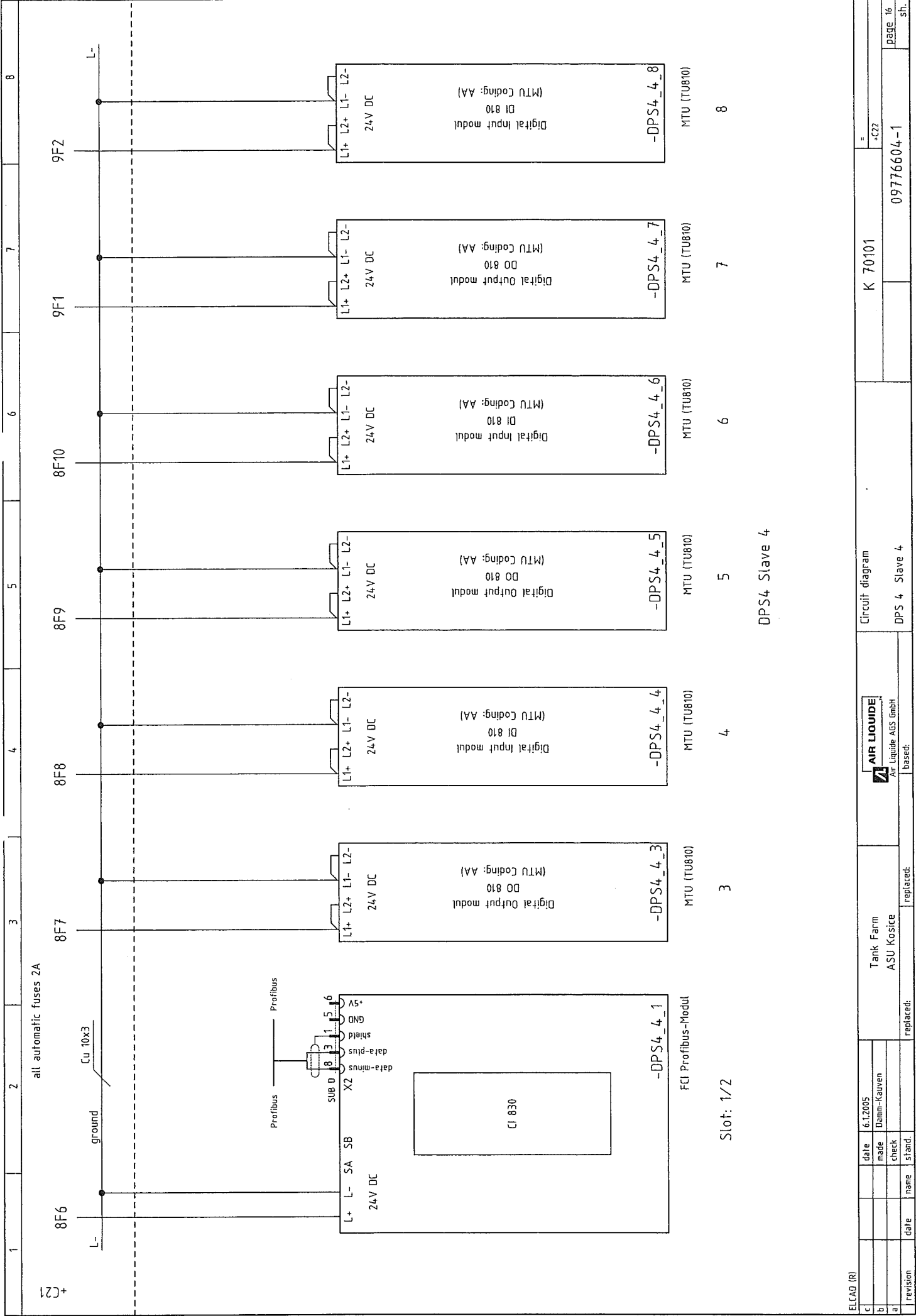












The diagram illustrates the power supply and module connections for the DPS4 Slave 4. It features a main power line with a 9F3 fuse and a ground connection. The power is distributed to two modules: an Analog Output module (AO 810) and an Analog Input module (AI 810). The AO module is connected to the ground and the power line. The AI module is connected to the power line and the ground. The diagram also shows the connection of the modules to the MTU (TU810) and the DPS4\_4\_9 module. The power supply is labeled as 24V DC. The ground connection is labeled as ground. The power line is labeled as L-.

[illegible]

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																		ELCAD (R)	
c										date	6.1.2005								
b										made	Damm-Kauven								
a										check									
										stand.									
										name									
										date									
										revision									
												Tank Farm ASU Kosice		Circuit diagram		K 70101			
												replaced:		Spare for DPS4 Slave 5		09776604-1			
												replaced:				+C22			
												replaced:				page 19			
												based:				sh.			
												AIR LIQUIDE							
												Air Liquide AGS GmbH							

[illegible]



[illegible]

[illegible]

1	2	3	4	5	6	7	8
	-DPS4_1_9						
	PCS 4						
	Slave 1						
	Slot 9						
	Digital Output						
		Output Ch1	C1	⊗	HS 62008_0	/103.2	GH 62008_I
		Output Ch2	B1	⊗	HS 62009_0	/106.2	GL 62008_I
		Output Ch3	C2	⊗	HS 62051_0	/113.2	GH 62009_I
		Output Ch4	B2	⊗	HS 62052_0	/115.2	GL 62009_I
		+24V	L1+				
		0V (A1-A4)	L1-				
		Output Ch5	C3	⊗	HS 63016_0	/119.2	HA 62008_I
		Output Ch6	B3	⊗	HS 63034_0	/122.2	HA 62009_I
		Output Ch7	C4	⊗	HS 64004_0	/124.3	HS 62011_I
		Output Ch8	B4	⊗	HS 64110_0	/135.2	HS 62012_I
		Output Ch9	C5	⊗	HS 64150_0	/139.2	LL 64030_I
		Output Ch10	B5	⊗	HS 64210_0	/144.2	PHH 62006_I
		Output Ch11	C6	⊗	HS 64250_0	/148.2	U 62051_I
		Output Ch12	B6	⊗	U0 62003_0	/96.2	UA 64001_I
		Output Ch13	C7	⊗			
		Output Ch14	B7	⊗			
		Output Ch15	C8	⊗	US 64010_0	/126.2	
		Output Ch16	B8	⊗	U0 62012_0	/109.4	
		+24V	L2+				
		0V (A5-A8)	L2-				
		ABB	DO 810				
	-DPS4_1_10						
	PCS 4						
	Slave 1						
	Slot 10						
	Digital Input						
		Input Ch1	C1	⊗		/102.3	GH 62008_I
		Input Ch2	B1	⊗		/102.4	GL 62008_I
		Input Ch3	C2	⊗		/105.2	GH 62009_I
		Input Ch4	B2	⊗		/105.4	GL 62009_I
		+24V	L1+				
		0V (A1-A4)	L1-				
		Input Ch5	C3	⊗		/104.7	HA 62008_I
		Input Ch6	B3	⊗		/107.7	HA 62009_I
		Input Ch7	C4	⊗		/108.2	HS 62011_I
		Input Ch8	B4	⊗		/109.2	HS 62012_I
		Input Ch9	C5	⊗		/127.6	LL 64030_I
		Input Ch10	B5	⊗		/101.4	PHH 62006_I
		Input Ch11	C6	⊗		/114.7	U 62051_I
		Input Ch12	B6	⊗		/125.7	UA 64001_I
		Input Ch13	C7	⊗			
		Input Ch14	B7	⊗			
		Input Ch15	C8	⊗			
		Input Ch16	B8	⊗			
		+24V	L2+				
		0V (A5-A8)	L2-				
		ABB	DI 810				

ELCAD (R)		6.1.2005		Tank Farm		AIR LIQUIDE		Circuit diagram		K 70101		=		+C22	
c		date	made	ASU Kosice		Air Liquide AGS GmbH		I/O allocation DPS 4 Slave 1		09776604-1		page 23		sh.	
b		check		replaced:		replaced:									
a	revision	date	name												

1	2	3	4	5	6	7	8
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[illegible]

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1	2	3	4	5	6	7	8
	-DPS4_2_7			-DPS4_2_8			
	PCS 4 Slave 2 Slot 7 Analog Output 0-20mA	<div> Output Ch1 C1 A1  Output Ch2 C2 A2  L1+ +24V  L1- 0V  Output Ch3 C3 A3  Output Ch4 C4 A4  Output Ch5 C5 A5  Output Ch6 C6 A6  Output Ch7 C7 A7  Output Ch8 C8 A8  L2+ +24V  L2- 0V  ABB AO 810 </div>	<div> /263.4 PIC 74150_0  /271.4 PIC 74250_0  /197.4 TIC 73031_0  /190.4 U 73010_0  /752.4 P 74090_0 </div>	<div> PCS 4 Slave 2 Slot 8 Analog Output 0-20mA </div>	<div> Output Ch1 C1 A1  Output Ch2 C2 A2  L1+ +24V  L1- 0V  Output Ch3 C3 A3  Output Ch4 C4 A4  Output Ch5 C5 A5  Output Ch6 C6 A6  Output Ch7 C7 A7  Output Ch8 C8 A8  L2+ +24V  L2- 0V  ABB AO 810 </div>	<div> /161.2 PIC 72004_0  /163.5 P 72005_0  /185.2 P 73005_0  /192.4 P 73015_0  /232.4 PIC 73150_0  /235.4 PIC 73158_0  /247.4 PIC 73250_0 </div>	
ELCAD (R)		Circuit diagram		K 70101		-C22	
c							
b							
a							
revision	date	name	date	replaced:	replaced:	09776604-1	
						page 27	
						sh.	

1	2	3	4	5	6	7	8
	-DPS4_2_9			-DPS4_2_10			
	PCS 4			PCS 4			
	Slave 2			Slave 2			
	Slot 9			Slot 10			
	Digital Output			Digital Input			
	Output Ch1	C1	HS 72008_0	Input Ch1	C1	GH 72008_I	
	Output Ch2	B1	HS 72009_0	Input Ch2	B1	GL 72008_I	
	Output Ch3	C2	HS 72051_0	Input Ch3	C2	GH 72009_I	
	Output Ch4	B2	HS 72052_0	Input Ch4	B2	GL 72009_I	
	+24V	L1+		+24V	L1+		
	0V (A1-A4)	L1-		0V (A1-A4)	L1-		
	Output Ch5	C3	HS 73001_0	Input Ch5	C3		
	Output Ch6	B3	HS 73014_0	Input Ch6	B3	GL 74090_I	
	Output Ch7	C4	HS 73016_0	Input Ch7	C4	HA 72008_I	
	Output Ch8	B4		Input Ch8	B4	HA 72009_I	
	Output Ch9	C5	HS 73101_0	Input Ch9	C5	HS 72011_I	
	Output Ch10	B5	HS 73103_0	Input Ch10	B5	HS 72012_I	
	Output Ch11	C6	HS 73110_0	Input Ch11	C6		
	Output Ch12	B6	HS 73150_0	Input Ch12	B6	EH 73103_I	
	Output Ch13	C7	HS 73203_0	Input Ch13	C7	EH 73203_I	
	Output Ch14	B7	HS 73210_0	Input Ch14	B7	PH 72006_I	
	Output Ch15	C8	HS 73250_0	Input Ch15	C8	PH 73006_I	
	Output Ch16	B8	HS 74090_0	Input Ch16	B8	UA 74090_I	
	+24V	L2+		+24V	L2+		
	0V (A5-A8)	L2-		0V (A5-A8)	L2-		
	ABB DO 810			ABB DI 810			

ELCAD (R)

c	date	6.1.2005
b	made	Damm-Kauven
a	check	
	stand	
revision	name	

Circuit diagram

I/O allocation DPS 4 Slave 2

AIR LIQUIDE

Air Liquide AGS GmbH

based:

Tank Farm

ASU Kosice

replaced:

K 70101

09776604-1


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sh.



1		2		3		4		5		6		7		8	
-DPS4_2_11		-DPS4_2_12													
PCS 4		PCS 4													
Slave 2		Slave 2													
Slot 11		Slot 12													
Digital Output		Digital Input													
Output Ch1		Input Ch1													
Output Ch2		Input Ch2													
Output Ch3		Input Ch3													
Output Ch4		Input Ch4													
+24V		+24V													
0V (A1-A4)		0V (A1-A4)													
Output Ch5		Input Ch5													
Output Ch6		Input Ch6													
Output Ch7		Input Ch7													
Output Ch8		Input Ch8													
Output Ch9		Input Ch9													
Output Ch10		Input Ch10													
Output Ch11		Input Ch11													
Output Ch12		Input Ch12													
Output Ch13		Input Ch13													
Output Ch14		Input Ch14													
Output Ch15		Input Ch15													
Output Ch16		Input Ch16													
+24V		+24V													
0V (A5-A8)		0V (A5-A8)													
ABB DO 810		ABB DI 810													
								</							

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c	b	a	revision	date	name	stand.	check	made	date	6.12005	Tank Farm ASU Kosice	AIR LIQUIDE  Air Liquide AGS GmbH	Circuit diagram	K 70101	= +C22	page 31 sh.
													I/O allocation DPS 4 Slave 3			09776604-1

-DPS4\_3\_5

PCS 4  
Slave 3  
Slot 5

Analog Input  
RDT (Pt100)

Input Ch1	C1 B1 A1
Input Ch2	C2 B2 A2
L1+ L1-	NC 0V
Input Ch3	C3 B3 A3
Input Ch4	C4 B4 A4
Input Ch5	C5 B5 A5
Input Ch6	C6 B6 A6
Input Ch7	C7 B7 A7
Input Ch8	C8 B8 A8
L2+ L2-	NC 0V
ABB	AI 830

/269.2 T 7424\_I

/46.2 T 20003\_I

-DPS4\_3\_6

PCS 4  
Slave 3  
Slot 6

Analog Input  
0(4)-20mA, 0-10V

Input Ch1	C1 B1 A1
Input Ch2	C2 B2 A2
L1+ L1-	+24V 0V
Input Ch3	C3 B3 A3
Input Ch4	C4 B4 A4
Input Ch5	C5 B5 A5
Input Ch6	C6 B6 A6
Input Ch7	C7 B7 A7
Input Ch8	C8 B8 A8
L2+ L2-	+24V 0V
ABB	AI 810

/63.2 P 44105\_I

/68.2 P 44205\_I

/64.2 P 44105\_I

/69.2 P 44205\_I

/78.2 P 48020\_I

/76.2 P 48005\_I

/81.2 P 48050\_I

/87.2 P 49020\_I

	1	2	3	4	5	6	7	8
-DPS4_3_7								
PCS 4 Slave 3 Slot 7 Analog Input 0(4)-20mA, 0-10V								
Input Ch1	C1 B1 A1	/75.2 T 48004_I					/62.2 T 44104_I	
Input Ch2	C2 B2 A2	/88.2 T 49020_I					/67.2 T 44204_I	
L1+ L1-	+24V 0V							
Input Ch3	C3 B3 A3	/91.2 T 49021_I					/82.2 T 48050_I	
Input Ch4	C4 B4 A4							
Input Ch5	C5 B5 A5	/44.2 F 20003_I						
Input Ch6	C6 B6 A6	/45.2 P 20003_I					/50.2 T 20013_I	
Input Ch7	C7 B7 A7	/155.2 P 70041_I					/156.2 T 70041_I	
Input Ch8	C8 B8 A8	/277.2 P 84010_I					/278.2 T 84010_I	
L2+ L2-	+24V 0V							
ABB AI 810								
-DPS4_3_8								
PCS 4 Slave 3 Slot 8 Analog Input RDT (Pt100)								
Input Ch1	C1 B1 A1							
Input Ch2	C2 B2 A2							
L1+ L1-	NC 0V							
Input Ch3	C3 B3 A3							
Input Ch4	C4 B4 A4							
Input Ch5	C5 B5 A5							
Input Ch6	C6 B6 A6							
Input Ch7	C7 B7 A7							
Input Ch8	C8 B8 A8							
L2+ L2-	NC 0V							
ABB AI 830								

ELCAD (R)

c			date	6.1.2005	Tank Farm	AIR LIQUIDE	Circuit diagram	K 70101	=	+c22	page 32
b			made	Damm-Kauven	ASU Kosice	Air Liquide AGS GmbH	I/O allocation DPS 4 Slave 3				sh.
a	revision	name	check	stand.	replaced:	based:					09776604-1

1		2		3		4		5		6		7		8	
-DPS4_3_9				-DPS4_3_10											
PCS 4 Slave 3 Slot 9 Analog Output 0-20mA				PCS 4 Slave 3 Slot 10 Digital Output											
Output Ch1 C1 A1				Output Ch1 C1 A1				Output Ch1 C1 A1				Output Ch1 C1 A1			
Output Ch2 C2 A2				Output Ch2 C2 A2				Output Ch2 C2 A2				Output Ch2 C2 A2			
L1+ L1- +24V 0V				L1+ L1- +24V 0V				L1+ L1- +24V 0V				L1+ L1- +24V 0V			
Output Ch3 C3 A3				Output Ch3 C3 A3				Output Ch3 C3 A3				Output Ch3 C3 A3			
Output Ch4 C4 A4				Output Ch4 C4 A4				Output Ch4 C4 A4				Output Ch4 C4 A4			
Output Ch5 C5 A5				Output Ch5 C5 A5				Output Ch5 C5 A5				Output Ch5 C5 A5			
Output Ch6 C6 A6				Output Ch6 C6 A6				Output Ch6 C6 A6				Output Ch6 C6 A6			
Output Ch7 C7 A7				Output Ch7 C7 A7				Output Ch7 C7 A7				Output Ch7 C7 A7			
Output Ch8 C8 A8				Output Ch8 C8 A8				Output Ch8 C8 A8				Output Ch8 C8 A8			
L2+ L2- +24V 0V				L2+ L2- +24V 0V				L2+ L2- +24V 0V				L2+ L2- +24V 0V			
ABB AO 810				ABB AO 810				ABB AO 810				ABB AO 810			
/83.2				/83.2				/83.2				/83.2			
/64.4				/64.4				/64.4				/64.4			
/69.4				/69.4				/69.4				/69.4			
/76.4				/76.4				/76.4				/76.4			
/79.2				/79.2				/79.2				/79.2			
/87.4				/87.4				/87.4				/87.4			
/47.4				/47.4				/47.4				/47.4			
/51.4				/51.4				/51.4				/51.4			
H 48070_0				H 48070_0				H 48070_0				H 48070_0			
P 44105_0				P 44105_0				P 44105_0				P 44105_0			
P 44205_0				P 44205_0				P 44205_0				P 44205_0			
P 48005_0				P 48005_0				P 48005_0				P 48005_0			
P 48027_0				P 48027_0				P 48027_0				P 48027_0			
P 49020_0				P 49020_0				P 49020_0				P 49020_0			
H 20013_0				H 20013_0				H 20013_0				H 20013_0			
H 20014_0				H 20014_0				H 20014_0				H 20014_0			
HS 48010_0				HS 48010_0				HS 48010_0				HS 48010_0			
HS 48050_0				HS 48050_0				HS 48050_0				HS 48050_0			
HS 49020_0				HS 49020_0				HS 49020_0				HS 49020_0			
U0 44012_0				U0 44012_0				U0 44012_0				U0 44012_0			
/77.2				/77.2				/77.2				/77.2			
/80.2				/80.2				/80.2				/80.2			
/86.2				/86.2				/86.2				/86.2			
/61.4				/61.4				/61.4				/61.4			
/89.2				/89.2				/89.2				/89.2			
/58.2				/58.2				/58.2				/58.2			
/43.2				/43.2				/43.2				/43.2			
/47.2				/47.2				/47.2				/47.2			
/51.2				/51.2				/51.2				/51.2			
HS 20003_0				HS 20003_0				HS 20003_0				HS 20003_0			
US 20013_0				US 20013_0				US 20013_0				US 20013_0			
US 20014_0				US 20014_0				US 20014_0				US 20014_0			
HS 70041_0				HS 70041_0				HS 70041_0				HS 70041_0			
Output Ch1 C1 A1				Output Ch1 C1 A1				Output Ch1 C1 A1				Output Ch1 C1 A1			
Output Ch2 B1 A1				Output Ch2 B1 A1				Output Ch2 B1 A1				Output Ch2 B1 A1			
Output Ch3 C2 A1				Output Ch3 C2 A1				Output Ch3 C2 A1				Output Ch3 C2 A1			
Output Ch4 B2 A1				Output Ch4 B2 A1				Output Ch4 B2 A1				Output Ch4 B2 A1			
Output Ch5 C3 A1				Output Ch5 C3 A1				Output Ch5 C3 A1				Output Ch5 C3 A1			
Output Ch6 B3 A1				Output Ch6 B3 A1				Output Ch6 B3 A1				Output Ch6 B3 A1			
Output Ch7 C4 A1				Output Ch7 C4 A1				Output Ch7 C4 A1				Output Ch7 C4 A1			
Output Ch8 B4 A1				Output Ch8 B4 A1				Output Ch8 B4 A1				Output Ch8 B4 A1			
Output Ch9 C5 A1				Output Ch9 C5 A1				Output Ch9 C5 A1				Output Ch9 C5 A1			
Output Ch10 B5 A1				Output Ch10 B5 A1				Output Ch10 B5 A1				Output Ch10 B5 A1			
Output Ch11 C6 A1				Output Ch11 C6 A1				Output Ch11 C6 A1				Output Ch11 C6 A1			
Output Ch12 B6 A1				Output Ch12 B6 A1				Output Ch12 B6 A1				Output Ch12 B6 A1			
Output Ch13 C7 A1				Output Ch13 C7 A1				Output Ch13 C7 A1				Output Ch13 C7 A1			
Output Ch14 B7 A1				Output Ch14 B7 A1				Output Ch14 B7 A1				Output Ch14 B7 A1			
Output Ch15 C8 A1				Output Ch15 C8 A1				Output Ch15 C8 A1				Output Ch15 C8 A1			
Output Ch16 B8 A1				Output Ch16 B8 A1				Output Ch16 B8 A1				Output Ch16 B8 A1			
+24V 0V (A5-A8)				+24V 0V (A5-A8)				+24V 0V (A5-A8)				+24V 0V (A5-A8)			
ABB DO 810				ABB DO 810				ABB DO 810				ABB DO 810			
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<table><tr><td>Input Ch1</td><td>C1</td><td>⊗</td><td>/85.3</td><td>GL 49020_I</td></tr><tr><td>Input Ch2</td><td>B1</td><td>⊗</td><td>/60.2</td><td>HS 44011_I</td></tr><tr><td>Input Ch3</td><td>C2</td><td>⊗</td><td>/61.2</td><td>HS 44012_I</td></tr><tr><td>Input Ch4</td><td>B2</td><td>⊗</td><td>/59.7</td><td>HA 44008_I</td></tr><tr><td>+24V L1+</td><td></td><td></td><td></td><td></td></tr><tr><td>0V (A1-A4) L1-</td><td></td><td></td><td></td><td></td></tr><tr><td>Input Ch5</td><td>C3</td><td>⊗</td><td>/73.7</td><td>HA 48001_I</td></tr><tr><td>Input Ch6</td><td>B3</td><td>⊗</td><td>/65.2</td><td>PH 44106_I</td></tr><tr><td>Input Ch7</td><td>C4</td><td>⊗</td><td>/70.2</td><td>PH 44206_I</td></tr><tr><td>Input Ch8</td><td>B4</td><td>⊗</td><td>/74.4</td><td>PH 48004_I</td></tr><tr><td>Input Ch9</td><td>C5</td><td>⊗</td><td></td><td></td></tr><tr><td>Input Ch10</td><td>B5</td><td>⊗</td><td>/90.7</td><td>UA 49020_I</td></tr><tr><td>Input Ch11</td><td>C6</td><td>⊗</td><td></td><td></td></tr><tr><td>Input Ch12</td><td>B6</td><td>⊗</td><td></td><td></td></tr><tr><td>Input Ch13</td><td>C7</td><td>⊗</td><td>/53.4</td><td>PD 20015_I</td></tr><tr><td>Input Ch14</td><td>B7</td><td>⊗</td><td>/55.4</td><td>PD 20016_I</td></tr><tr><td>Input Ch15</td><td>C8</td><td>⊗</td><td></td><td></td></tr><tr><td>Input Ch16</td><td>B8</td><td>⊗</td><td></td><td></td></tr><tr><td>+24V L2+</td><td></td><td></td><td></td><td></td></tr><tr><td>0V (A5-A8) L2-</td><td></td><td></td><td></td><td></td></tr><tr><td>ABB DI 810</td><td></td><td></td><td></td><td></td></tr></table>																Input Ch1	C1	⊗	/85.3	GL 49020_I	Input Ch2	B1	⊗	/60.2	HS 44011_I	Input Ch3	C2	⊗	/61.2	HS 44012_I	Input Ch4	B2	⊗	/59.7	HA 44008_I	+24V L1+					0V (A1-A4) L1-					Input Ch5	C3	⊗	/73.7	HA 48001_I	Input Ch6	B3	⊗	/65.2	PH 44106_I	Input Ch7	C4	⊗	/70.2	PH 44206_I	Input Ch8	B4	⊗	/74.4	PH 48004_I	Input Ch9	C5	⊗			Input Ch10	B5	⊗	/90.7	UA 49020_I	Input Ch11	C6	⊗			Input Ch12	B6	⊗			Input Ch13	C7	⊗	/53.4	PD 20015_I	Input Ch14	B7	⊗	/55.4	PD 20016_I	Input Ch15	C8	⊗			Input Ch16	B8	⊗			+24V L2+					0V (A5-A8) L2-					ABB DI 810				
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	Slave 4			Slave 4			
	Slot 5			Slot 6			
	Digital Output			Digital Input			
		Output Ch1	C1	Output Ch1	C1	EA 73101_I	
		Output Ch2	B1	Output Ch2	B1	EL 73101_I	
		Output Ch3	C2	Output Ch3	C2	EA 73201_I	
		Output Ch4	B2	Output Ch4	B2	EL 73201_I	
		+24V	L1+	+24V	L1+		
		0V (A1-A4)	L1-	0V (A1-A4)	L1-		
		Output Ch5	C3	Output Ch5	C3	EH 74101_I	
		Output Ch6	B3	Output Ch6	B3	EH 74201_I	
		Output Ch7	C4	Output Ch7	C4	EH 72001_I	
		Output Ch8	B4	Output Ch8	B4	EH 73102_I	
		Output Ch9	C5	Output Ch9	C5	EH 73202_I	
		Output Ch10	B5	Output Ch10	B5	EH 73140_I	
		Output Ch11	C6	Output Ch11	C6	USO 73140_I	
		Output Ch12	B6	Output Ch12	B6	EH 73101_I	
		Output Ch13	C7	Output Ch13	C7	UA 73130_I	
		Output Ch14	B7	Output Ch14	B7	EH 73130_I	
		Output Ch15	C8	Output Ch15	C8	UA 73131_I	
		Output Ch16	B8	Output Ch16	B8	EH 73131_I	
		+24V	L2+	+24V	L2+		
		0V (A5-A8)	L2-	0V (A5-A8)	L2-		
		ABB DO 810		ABB DI 810			



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	-DPS4_4_7						
	PCS 4						
	Slave 4						
	Slot 7						
	Digital Output						
	Output Ch1	C1	⊗	Output Ch1	C1	⊗	EH 48001_I
	Output Ch2	B1	⊗	Output Ch2	B1	⊗	EH 44001_I
	Output Ch3	C2	⊗	Output Ch3	C2	⊗	
	Output Ch4	B2	⊗	Output Ch4	B2	⊗	
	+24V	L1+		+24V	L1+		
	0V (A1-A4)	L1-		0V (A1-A4)	L1-		
	Output Ch5	C3	⊗	Output Ch5	C3	⊗	UA 73132_I
	Output Ch6	B3	⊗	Output Ch6	B3	⊗	EH 73132_I
	Output Ch7	C4	⊗	Output Ch7	C4	⊗	PH 73142_I
	Output Ch8	B4	⊗	Output Ch8	B4	⊗	UA 73142_I
	Output Ch9	C5	⊗	Output Ch9	C5	⊗	EH 73142_I
	Output Ch10	B5	⊗	Output Ch10	B5	⊗	PH 73143_I
	Output Ch11	C6	⊗	Output Ch11	C6	⊗	UA 73143_I
	Output Ch12	B6	⊗	Output Ch12	B6	⊗	EH 73143_I
	Output Ch13	C7	⊗	Output Ch13	C7	⊗	PH 73144_I
	Output Ch14	B7	⊗	Output Ch14	B7	⊗	UA 73144_I
	Output Ch15	C8	⊗	Output Ch15	C8	⊗	EH 73144_I
	Output Ch16	B8	⊗	Output Ch16	B8	⊗	EH 73201_I
	+24V	L2+		+24V	L2+		
	0V (A5-A8)	L2-		0V (A5-A8)	L2-		
	ABB DO 810			ABB DI 810			
	-DPS4_4_8						
	PCS 4						
	Slave 4						
	Slot 8						
	Digital Input						
	Output Ch1	C1	⊗	Output Ch1	C1	⊗	HS 48001_0
	Output Ch2	B1	⊗	Output Ch2	B1	⊗	US 44001_0
	Output Ch3	C2	⊗				
	Output Ch4	B2	⊗				
	+24V	L1+					
	0V (A1-A4)	L1-					
	Output Ch5	C3	⊗	Output Ch5	C3	⊗	HS 73142_0
	Output Ch6	B3	⊗	Output Ch6	B3	⊗	HS 73143_0
	Output Ch7	C4	⊗	Output Ch7	C4	⊗	HS 73144_0
	Output Ch8	B4	⊗				
	Output Ch9	C5	⊗				
	Output Ch10	B5	⊗				
	Output Ch11	C6	⊗				
	Output Ch12	B6	⊗				
	Output Ch13	C7	⊗				
	Output Ch14	B7	⊗				
	Output Ch15	C8	⊗				
	Output Ch16	B8	⊗				
	+24V	L2+					
	0V (A5-A8)	L2-					
	ABB DO 810						
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Slave 4															
Slot 9															
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0-20mA															
<div><div>Output Ch1</div><div>C1 A1</div></div> <div><div>Output Ch2</div><div>C2 A2</div></div> <div><div>L1+</div><div>+24V</div></div> <div><div>L1-</div><div>0V</div></div> <div><div>Output Ch3</div><div>C3 A3</div></div> <div><div>Output Ch4</div><div>C4 A4</div></div> <div><div>Output Ch5</div><div>C5 A5</div></div> <div><div>Output Ch6</div><div>C6 A6</div></div> <div><div>Output Ch7</div><div>C7 A7</div></div> <div><div>Output Ch8</div><div>C8 A8</div></div> <div><div>L2+</div><div>+24V</div></div> <div><div>L2-</div><div>0V</div></div> <div><div>ABB</div><div>A0 810</div></div>															
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Slave 4															
Slot 10															
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0(4)-20mA, 0-10V															
<div><div>Input Ch1</div><div>C1 B1 A1</div></div> <div><div>Input Ch2</div><div>C2 B2 A2</div></div> <div><div>L1+</div><div>+24V</div></div> <div><div>L1-</div><div>0V</div></div> <div><div>Input Ch3</div><div>C3 B3 A3</div></div> <div><div>Input Ch4</div><div>C4 B4 A4</div></div> <div><div>Input Ch5</div><div>C5 B5 A5</div></div> <div><div>Input Ch6</div><div>C6 B6 A6</div></div> <div><div>Input Ch7</div><div>C7 B7 A7</div></div> <div><div>Input Ch8</div><div>C8 B8 A8</div></div> <div><div>L2+</div><div>+24V</div></div> <div><div>L2-</div><div>0V</div></div> <div><div>ABB</div><div>AI 810</div></div>															
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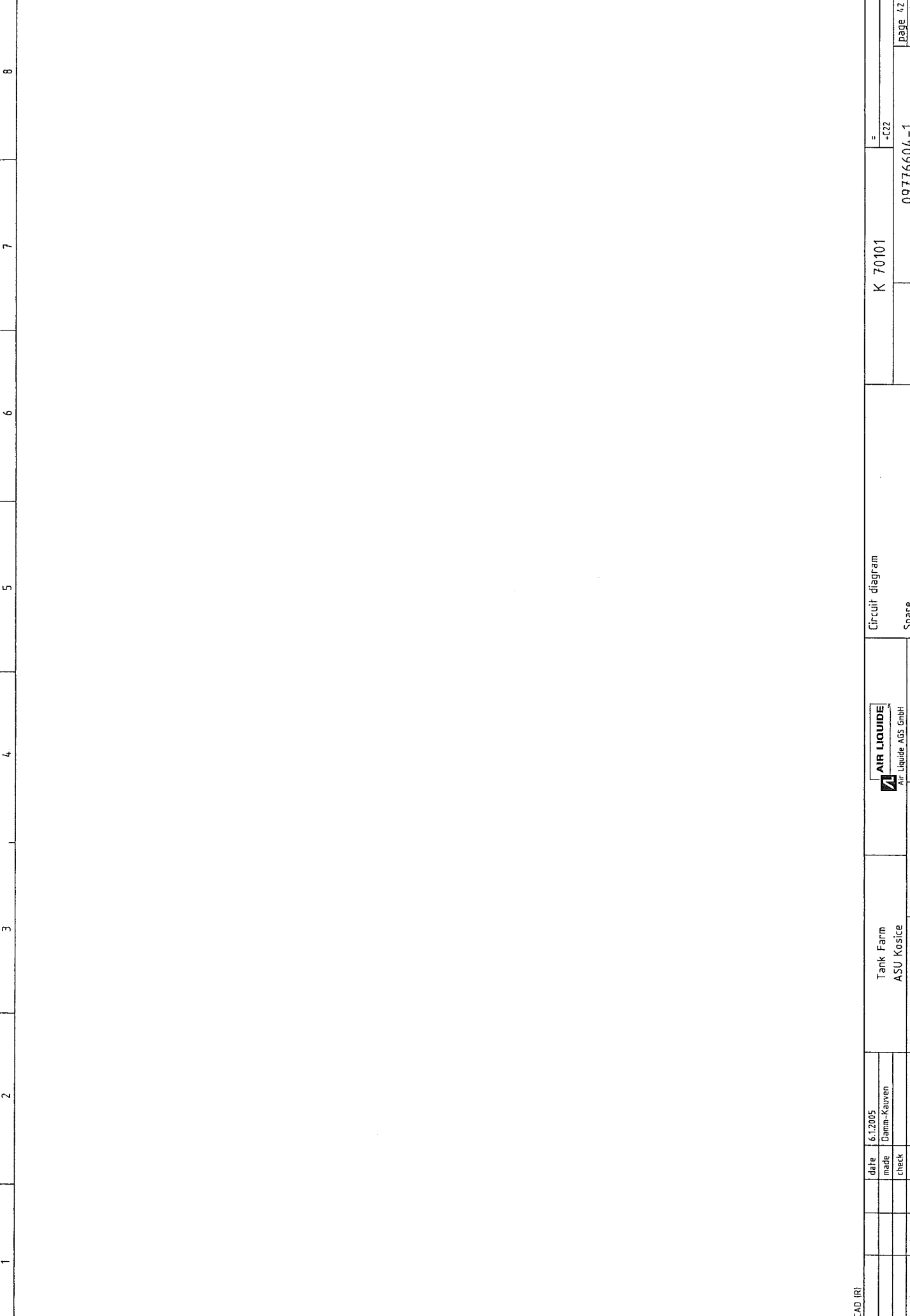

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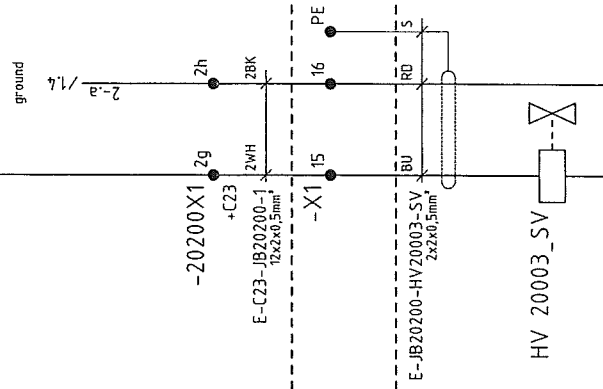
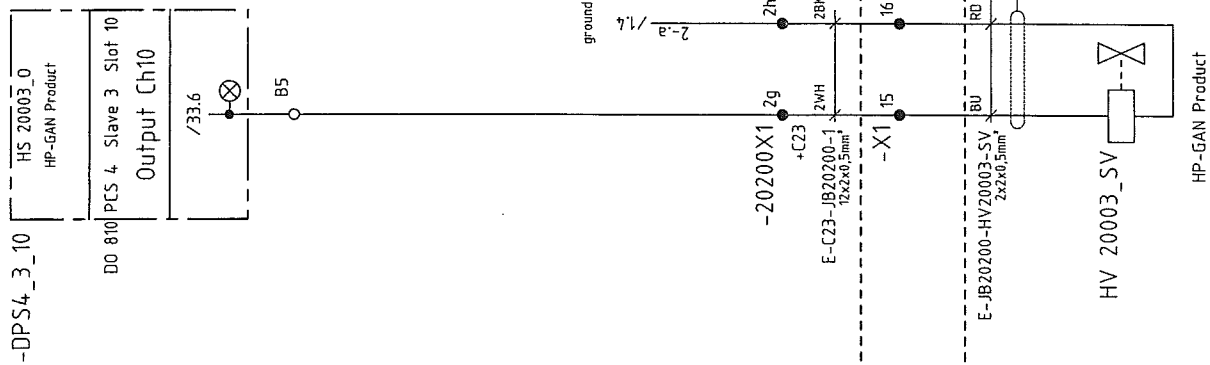
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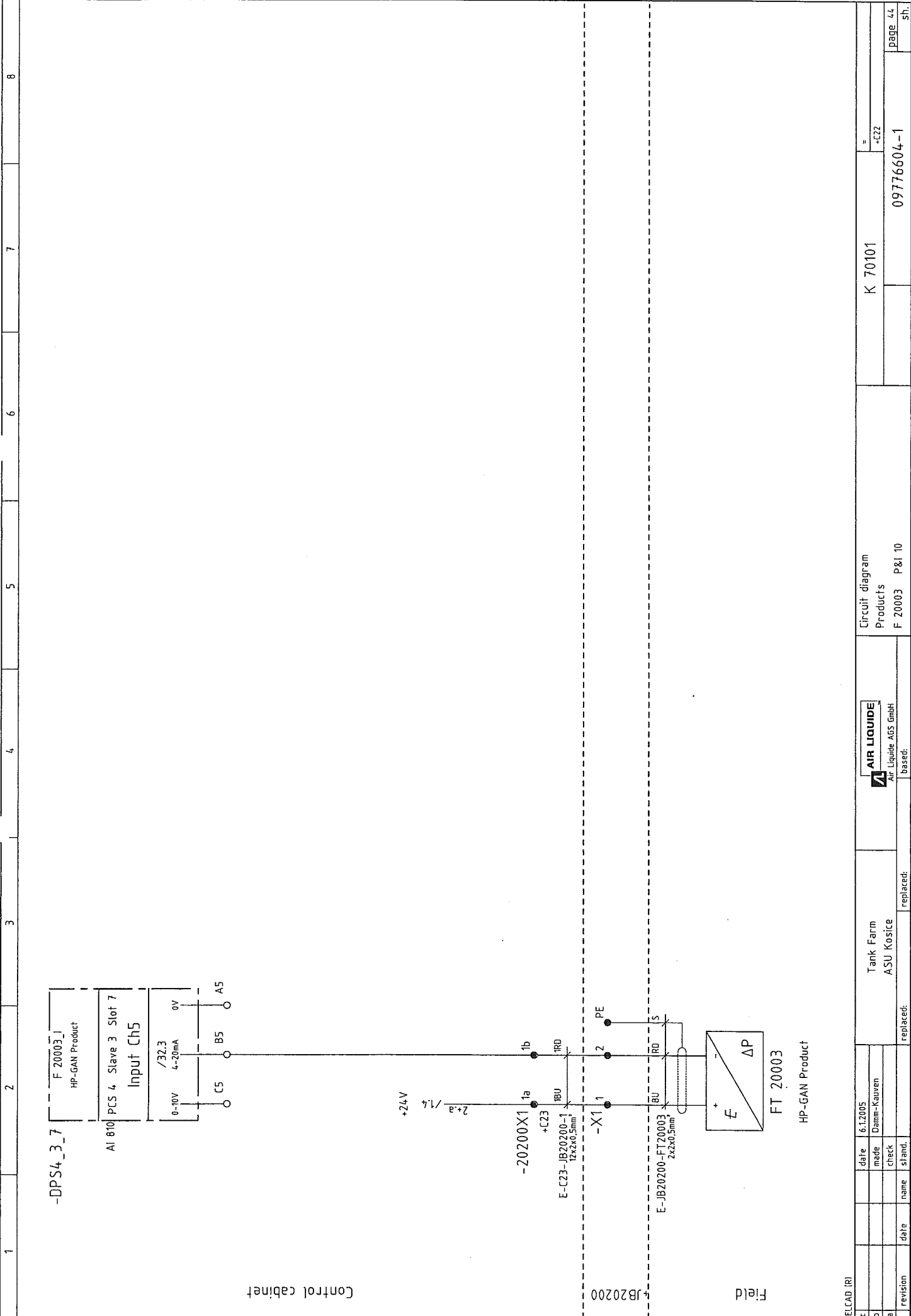
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revision a	name 	date 	replaced: 	replaced: 	Spare	09776604-1	page 42 5h.

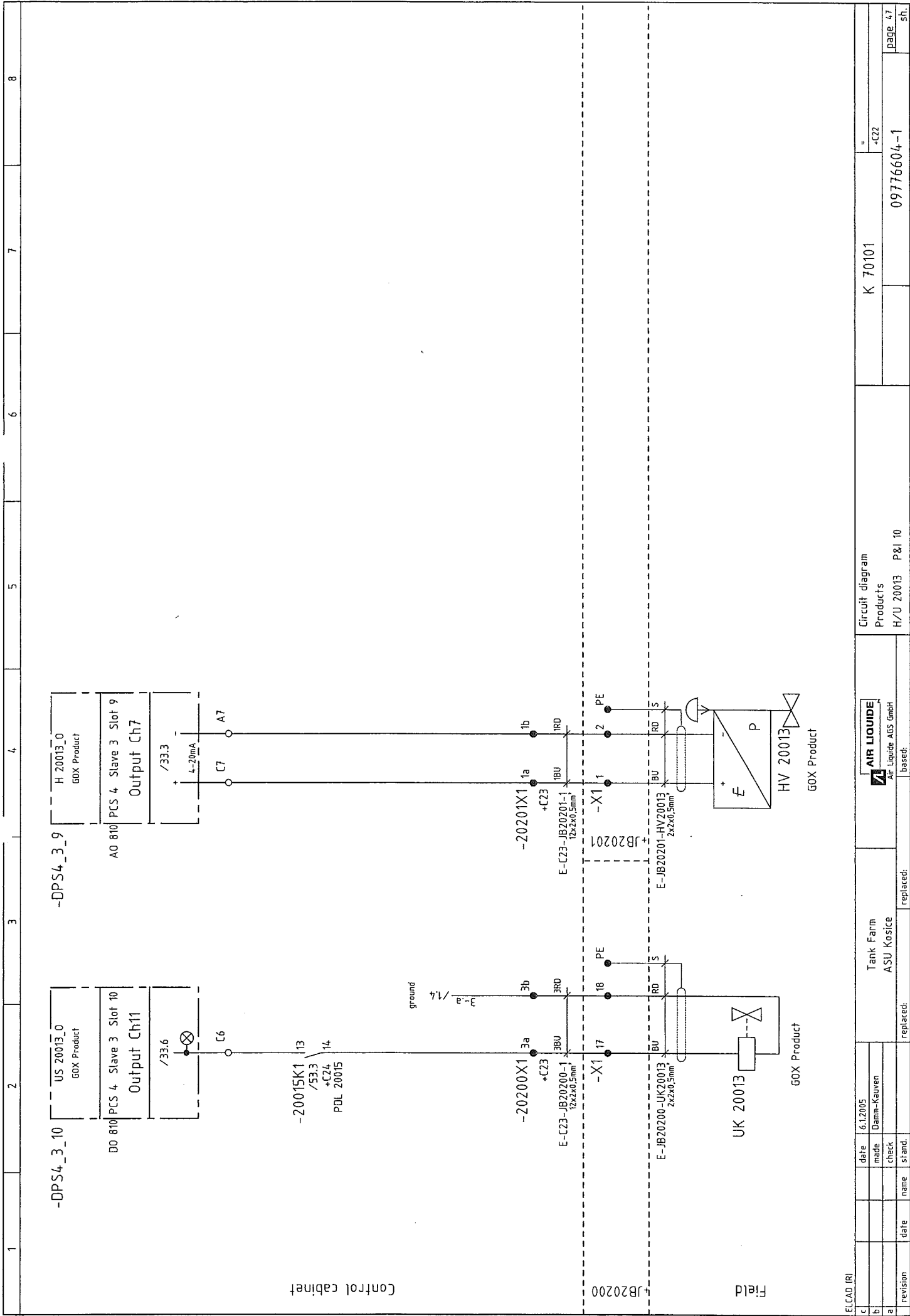
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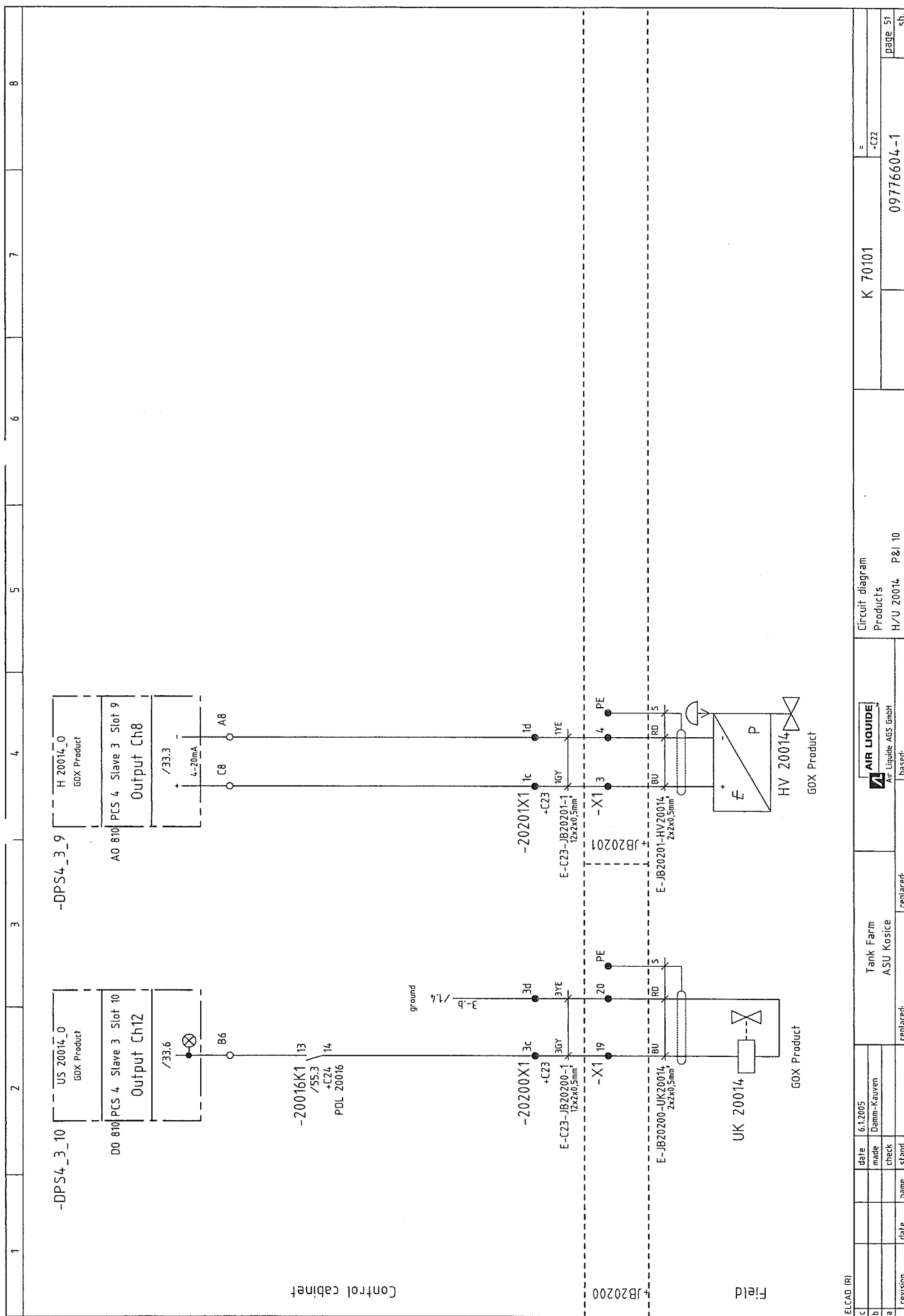


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a	revision	date	name	stand.	check	made	Damm-Kauven	replaced:	replaced:	ASU Kosice	ASU Kosice	based:	AIR LIQUIDE	Air Liquide AUS GmbH	Products	H/U 20013	P&I 10				



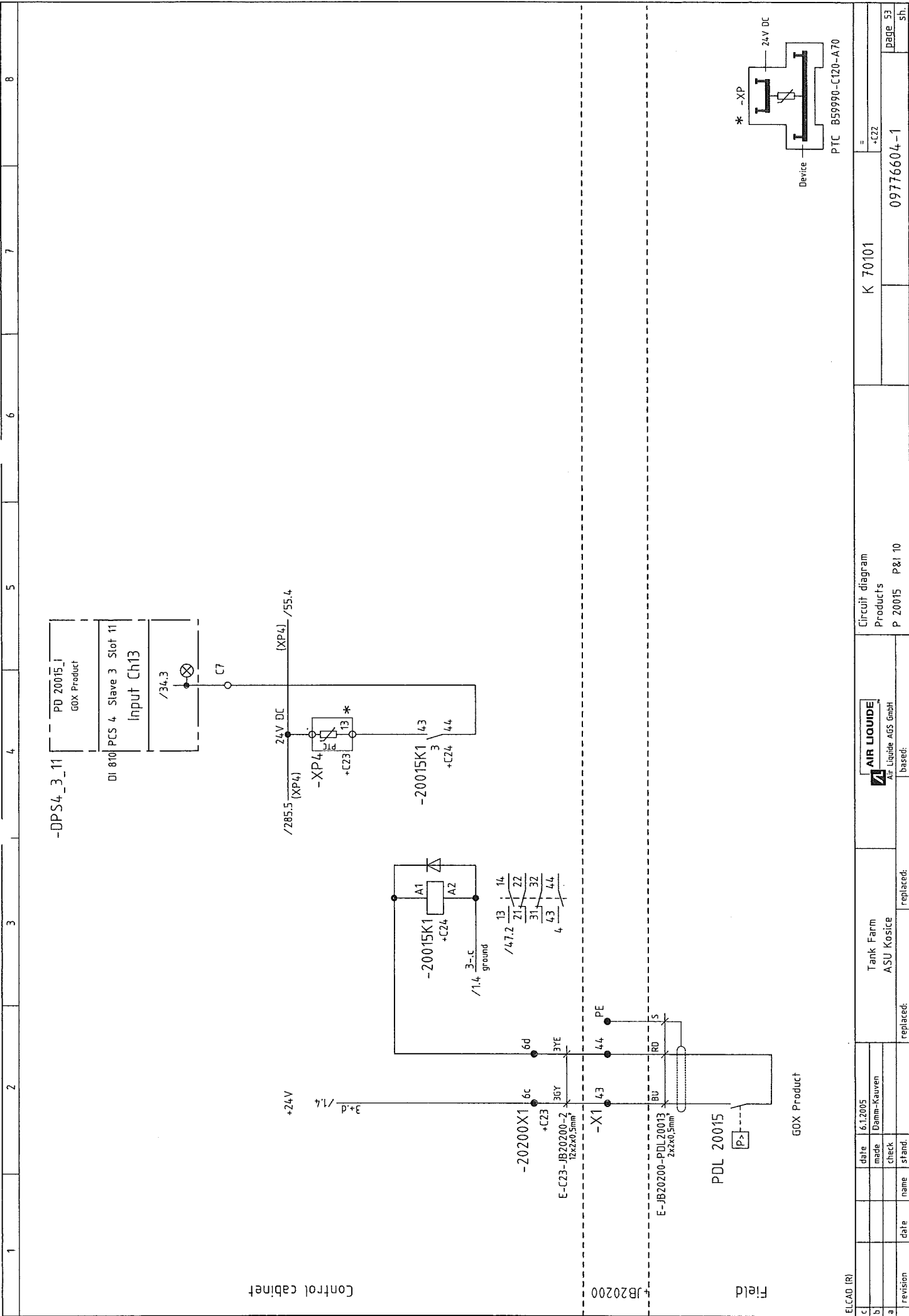




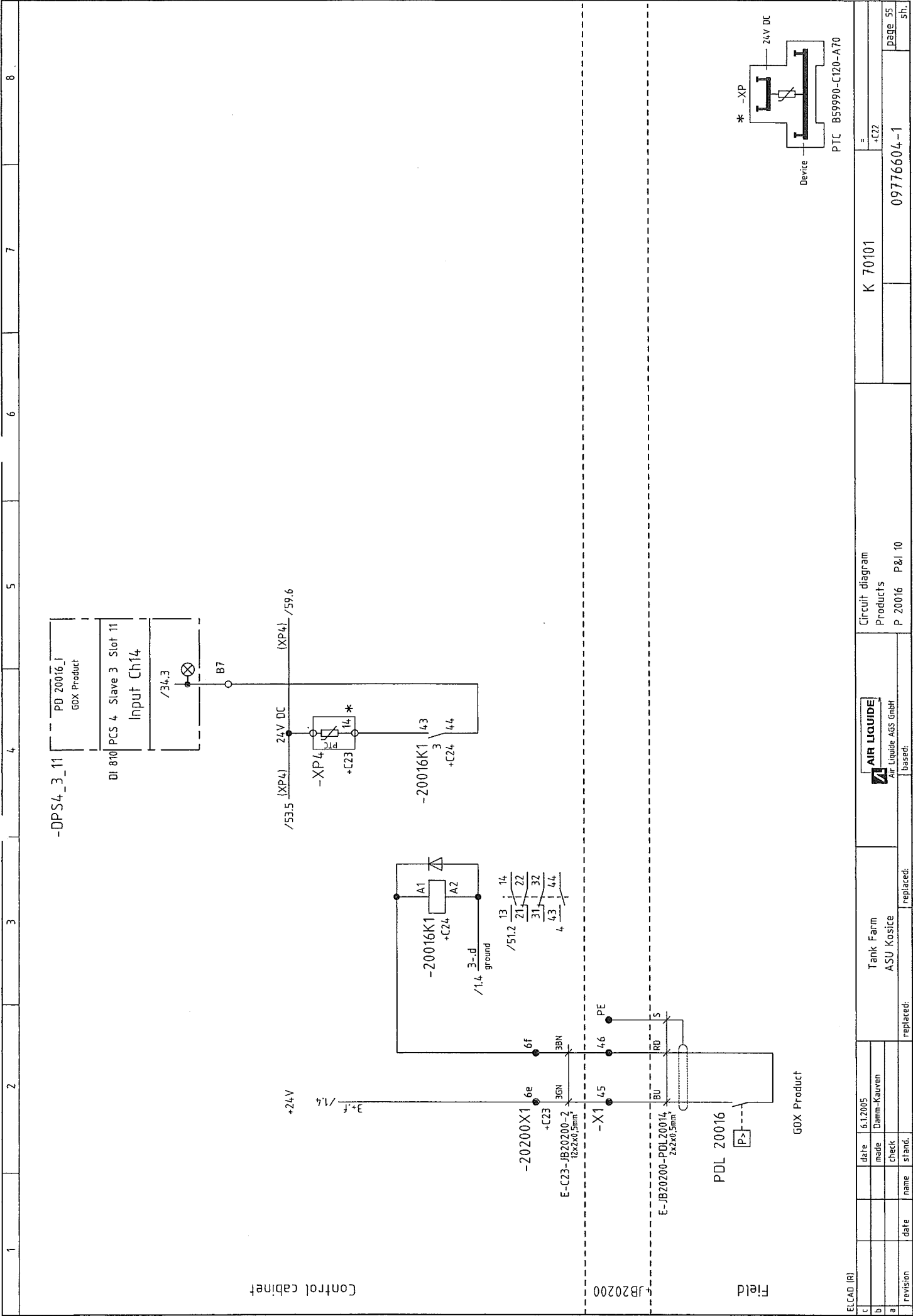









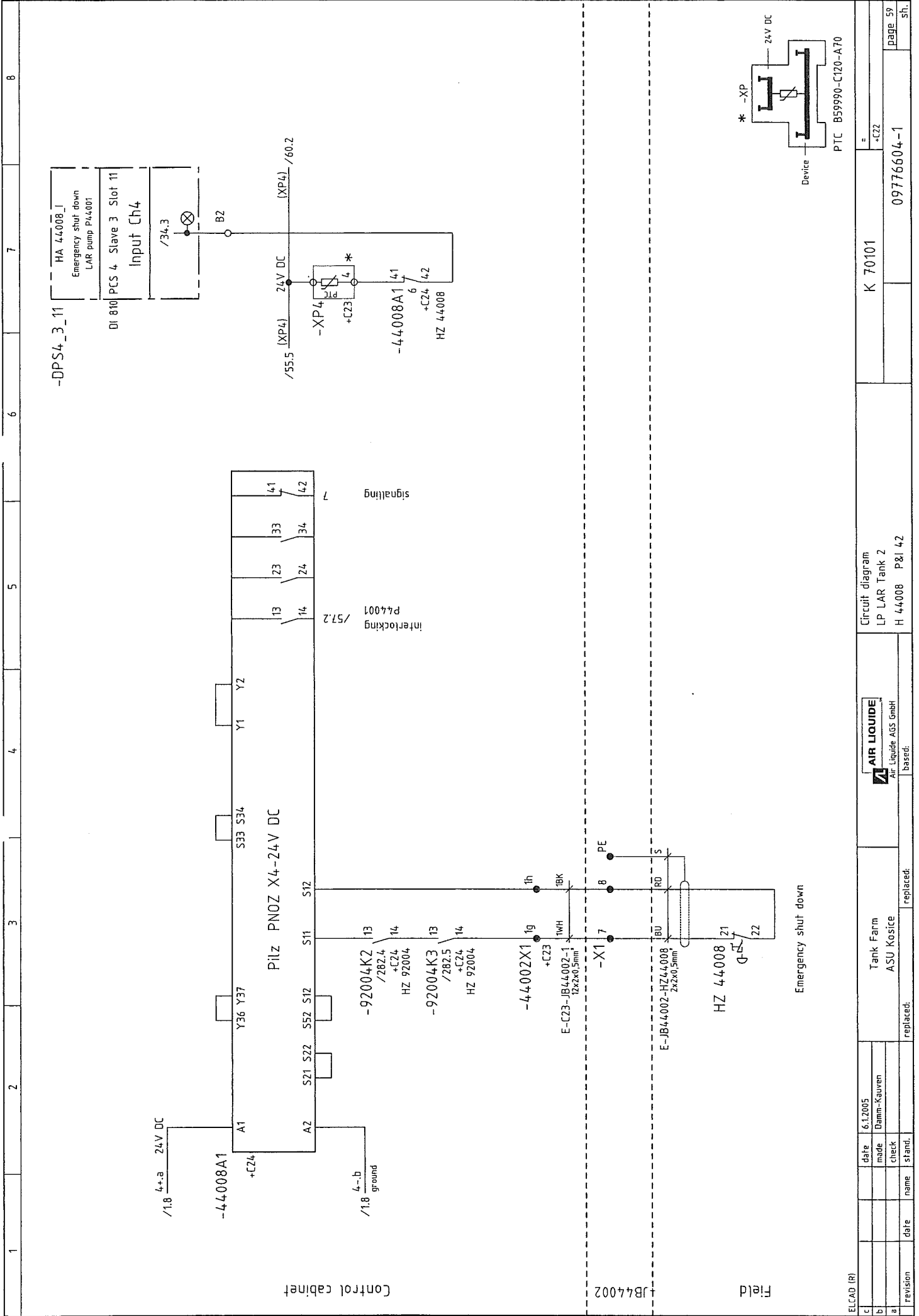




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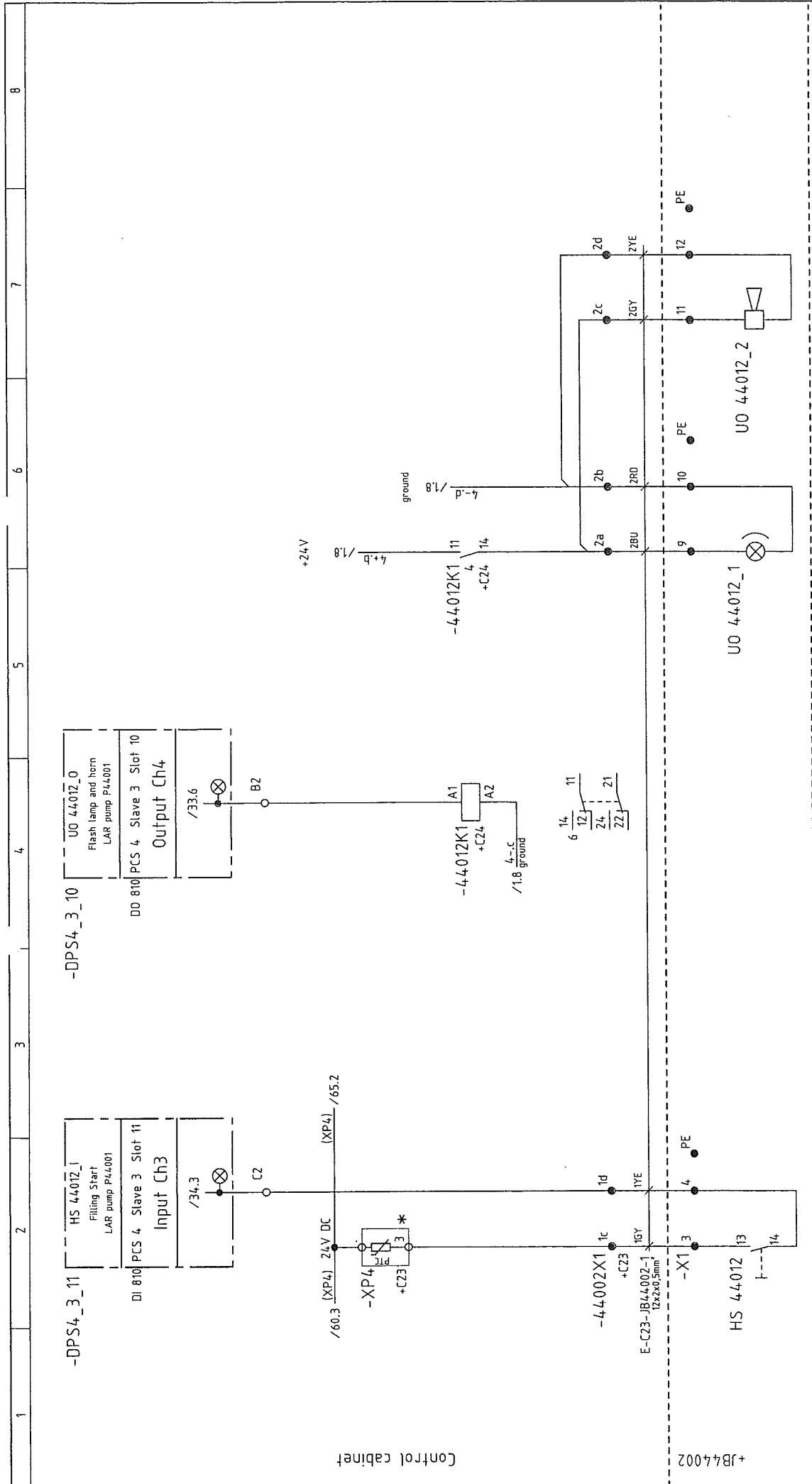




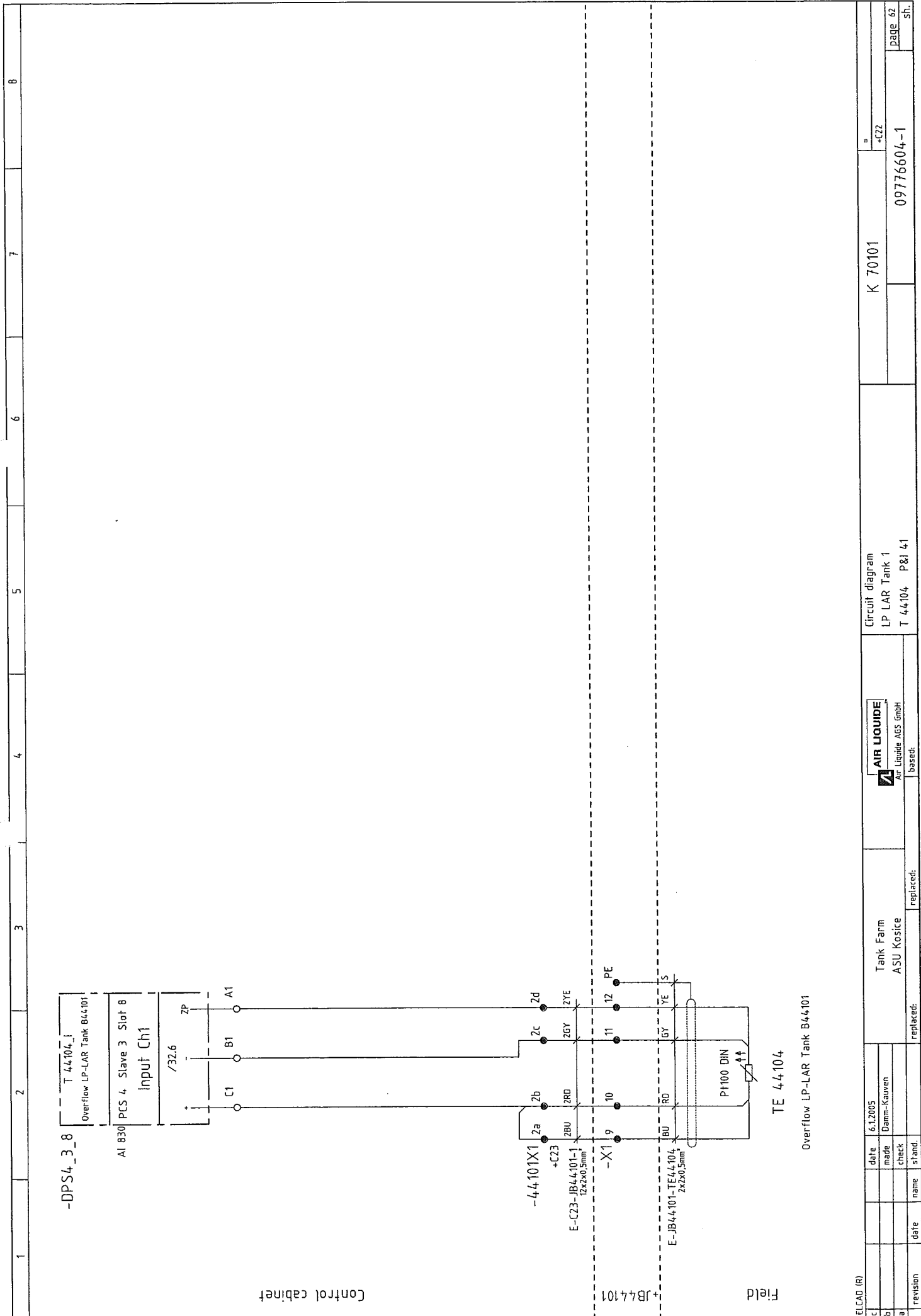




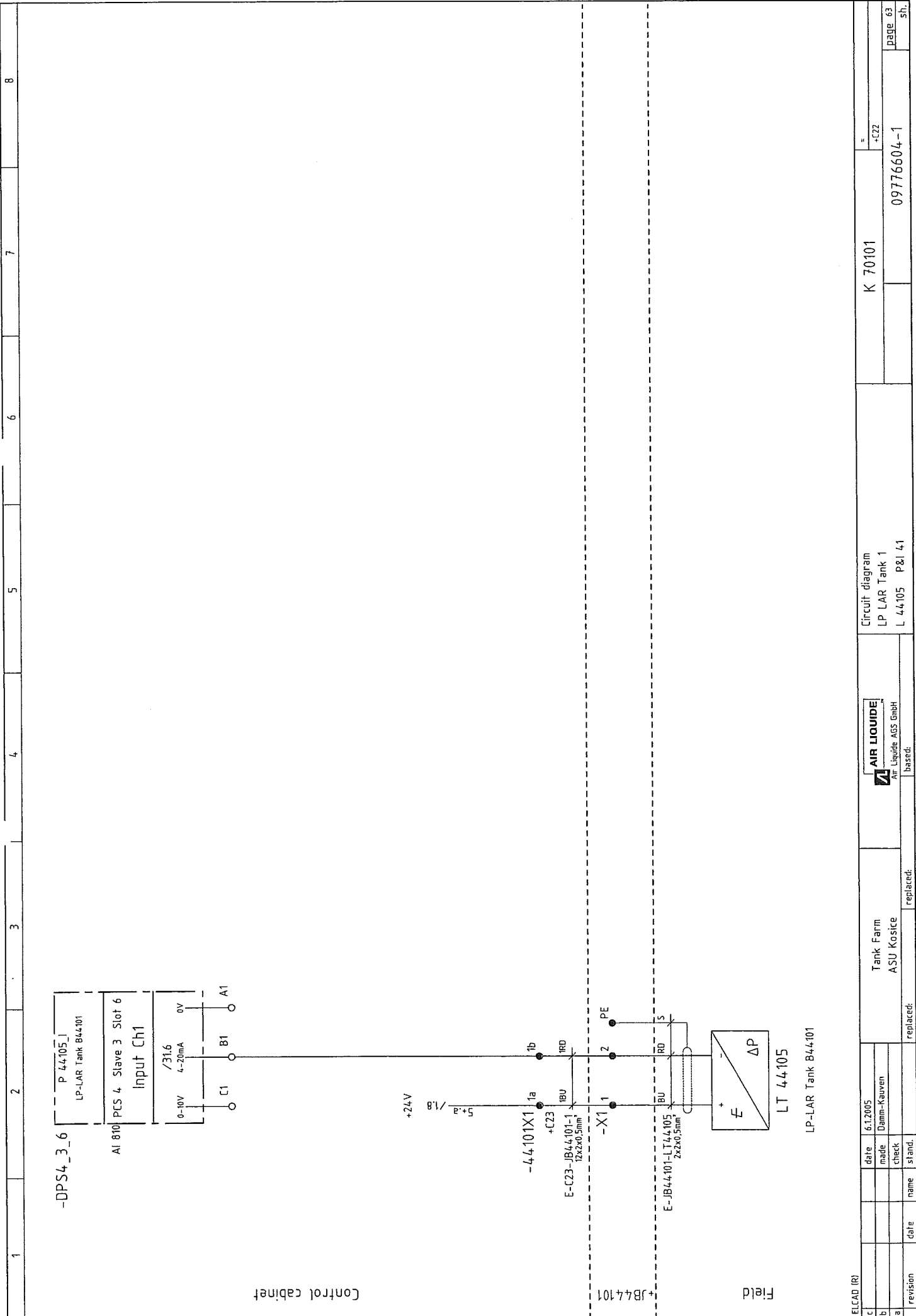




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ELCAD (R)		date		6.1.2005	Tank Farm		Circuit diagram		K 70101		=	
c					ASU Kosice		LP LAR Tank 1		09776604-1		+C22	
b					replaced:		T 44104 P&I 41				page 62	
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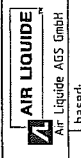


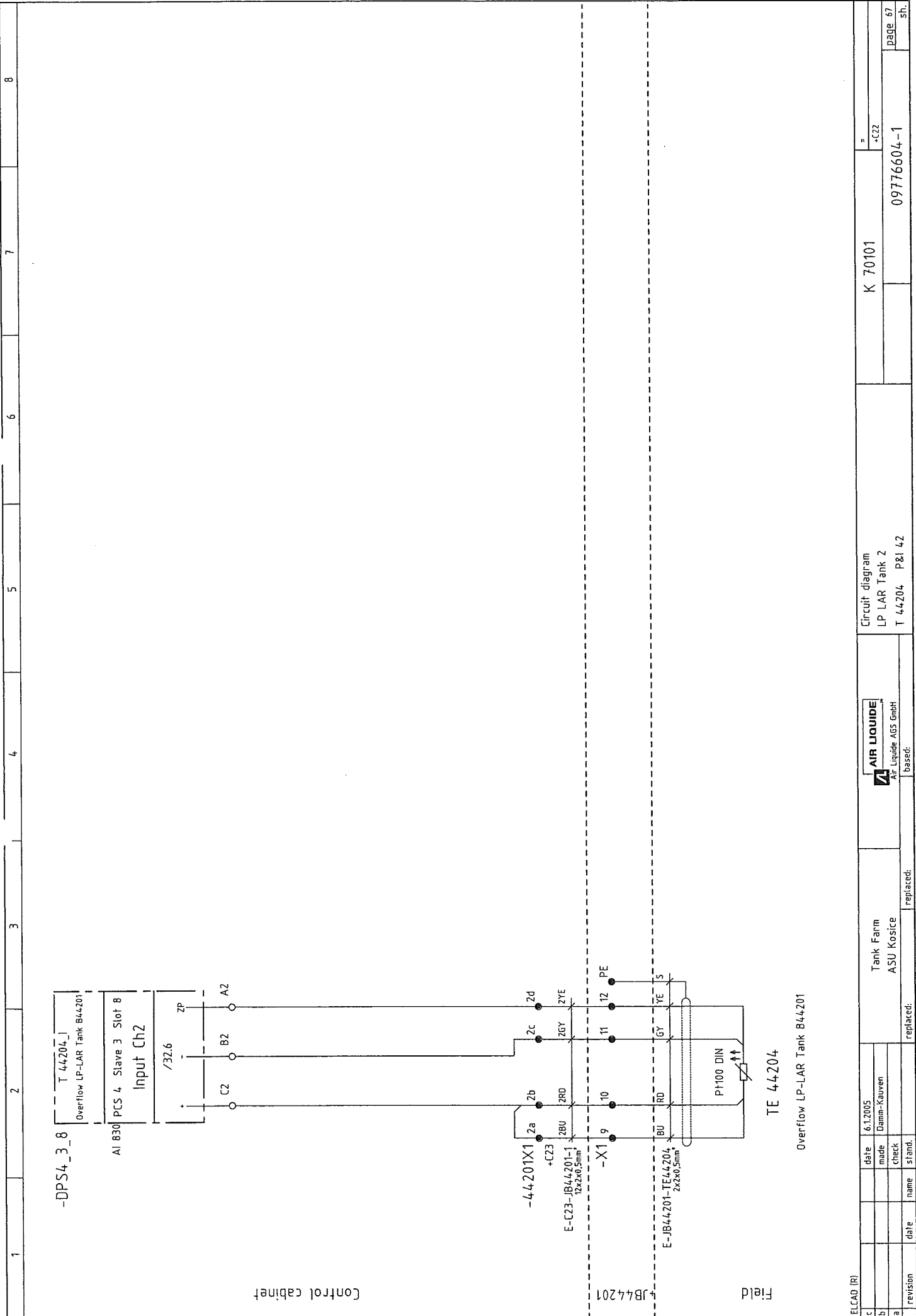




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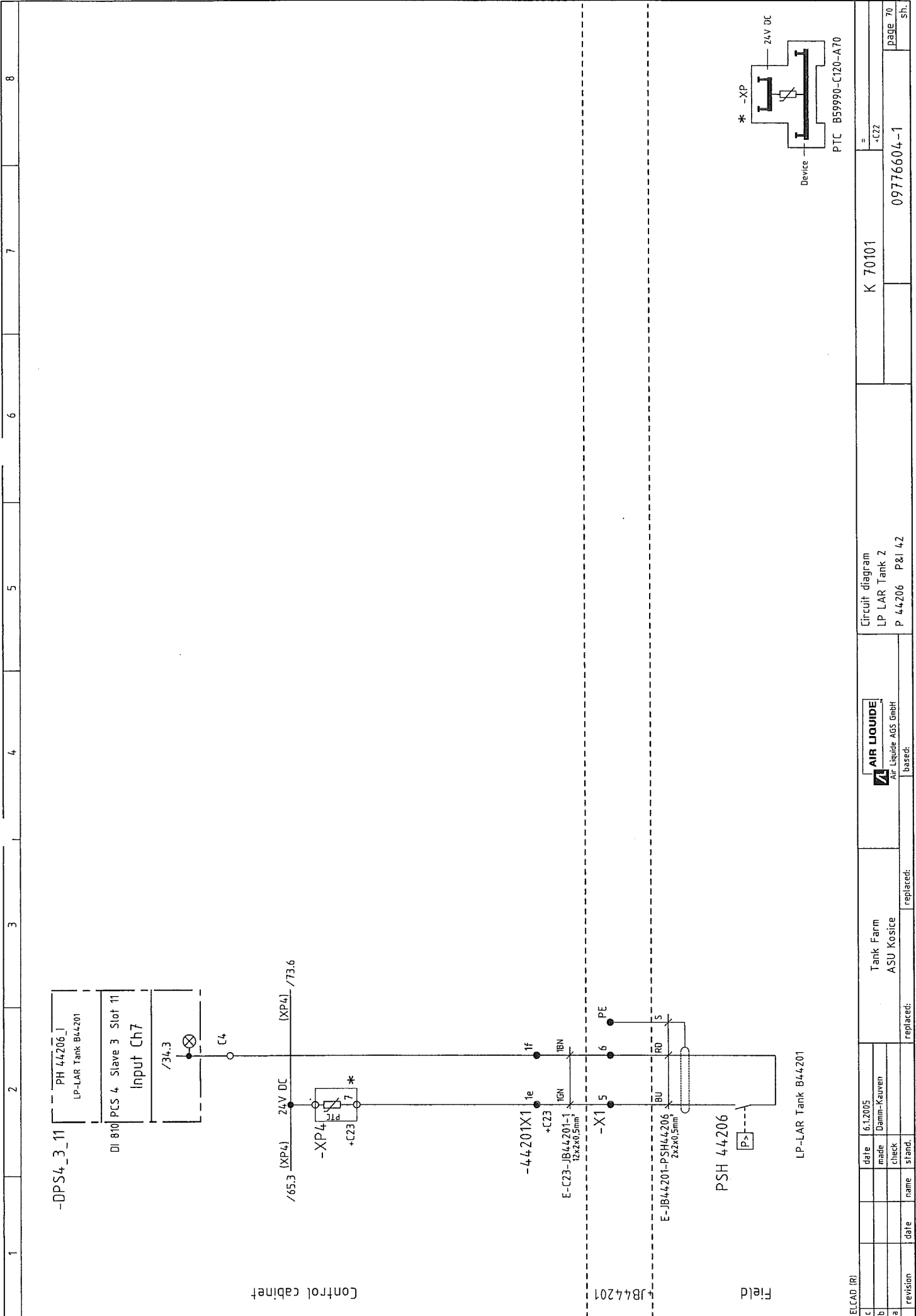







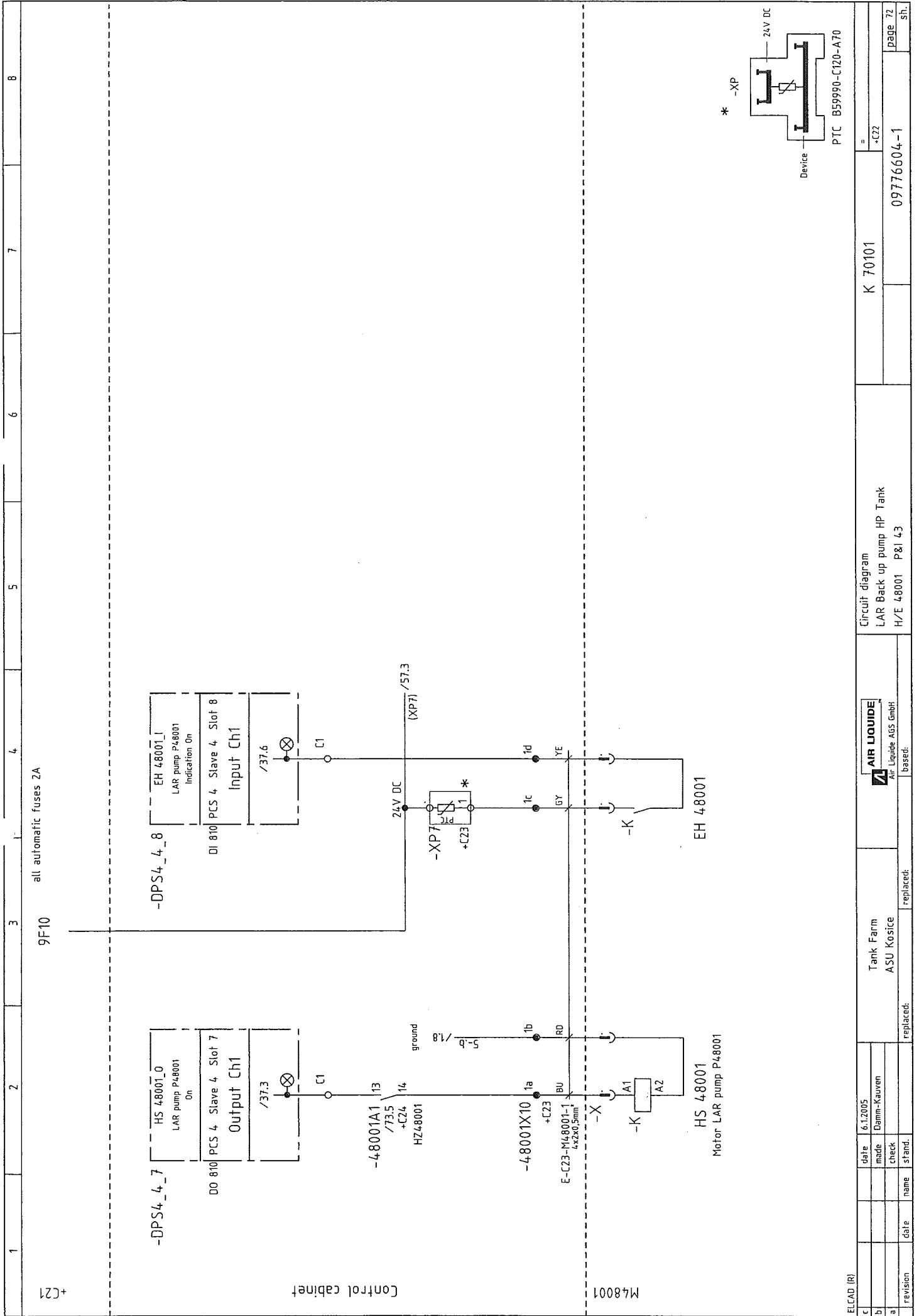


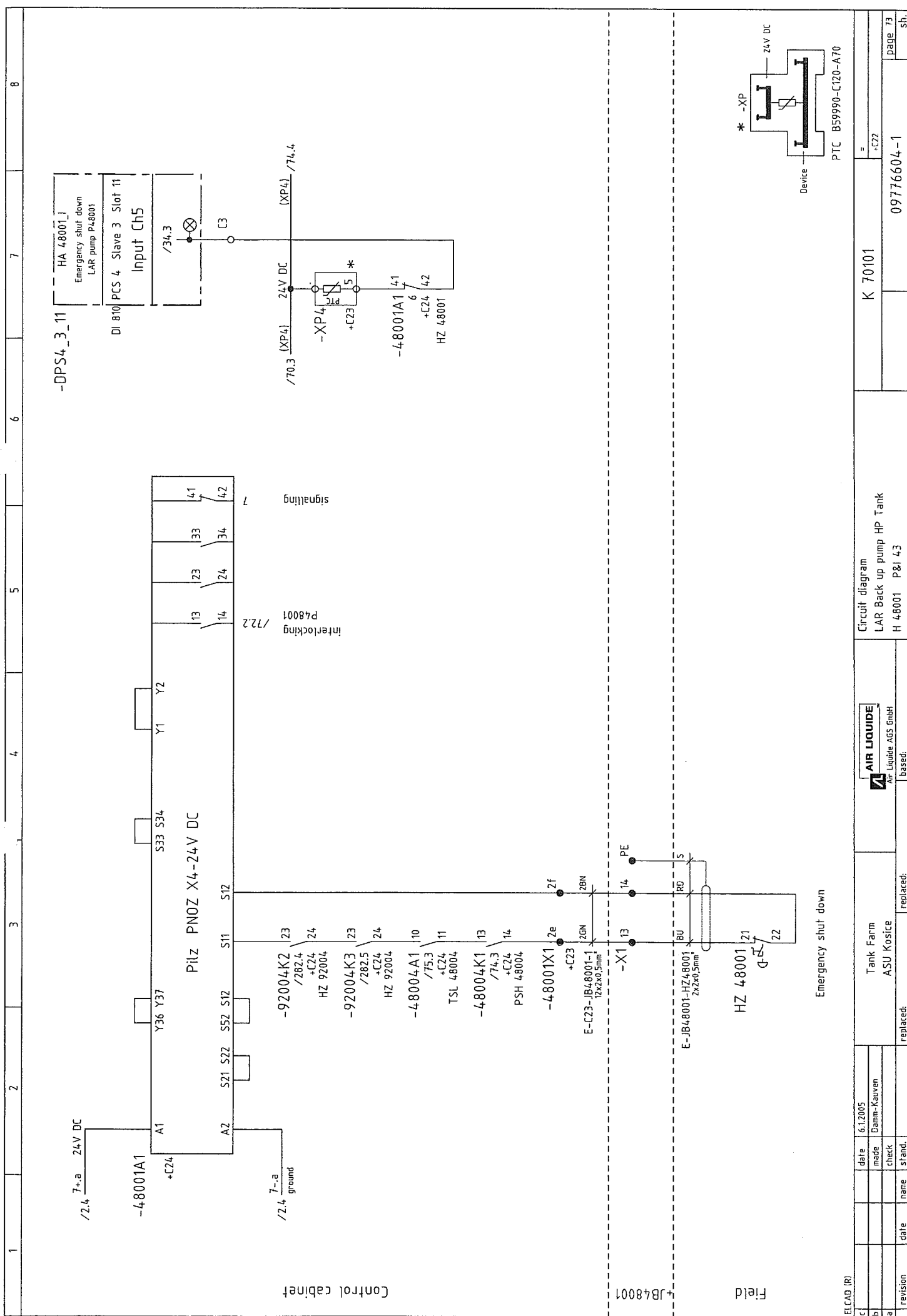






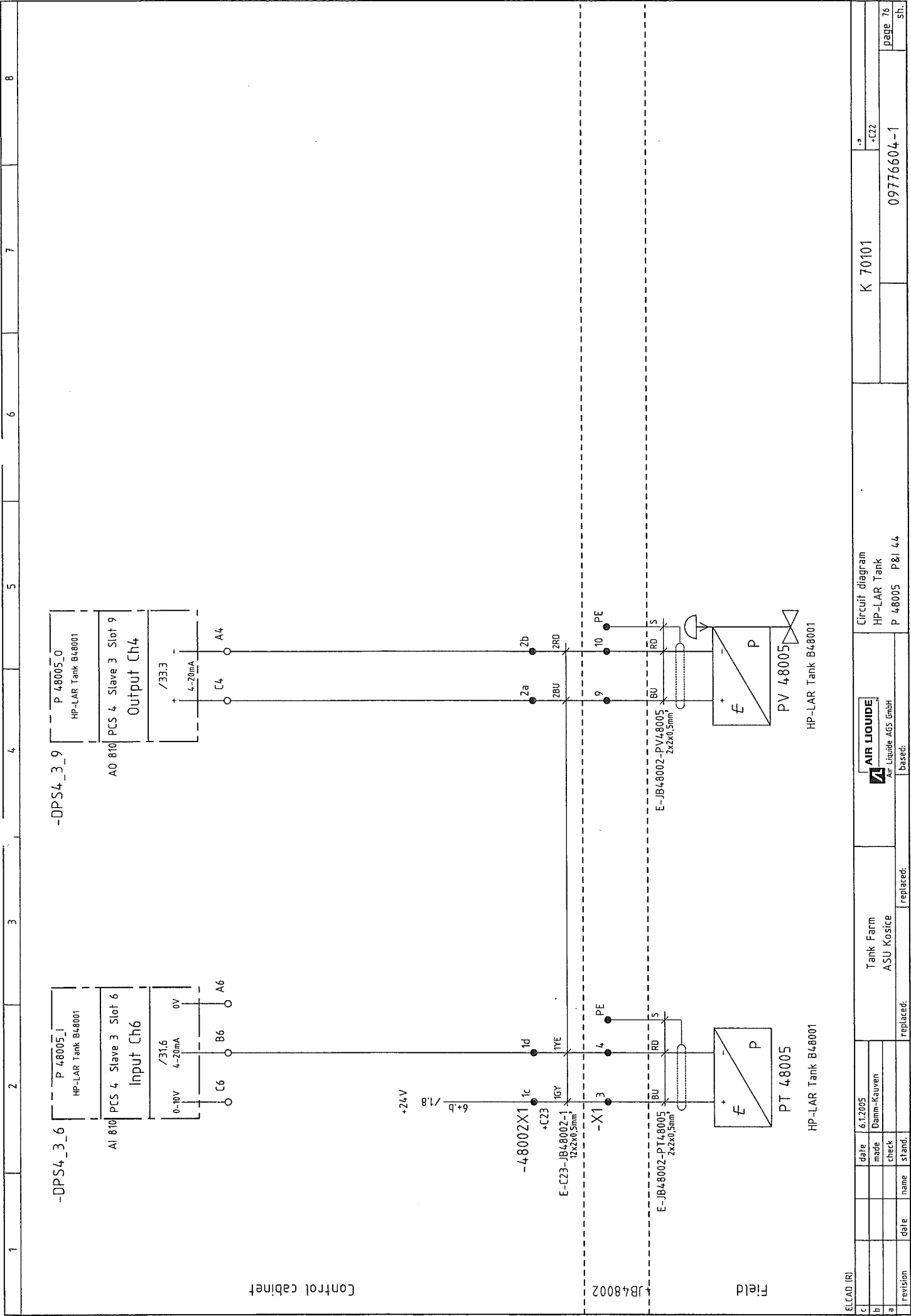
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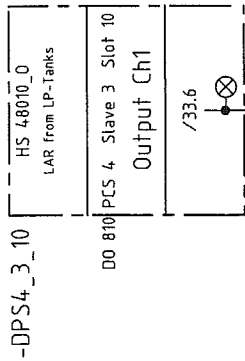






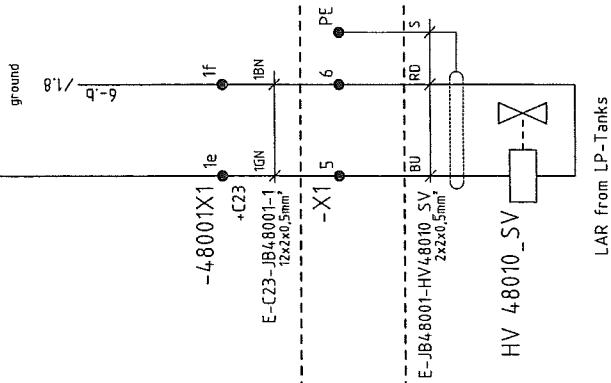






C1

Control cabinet



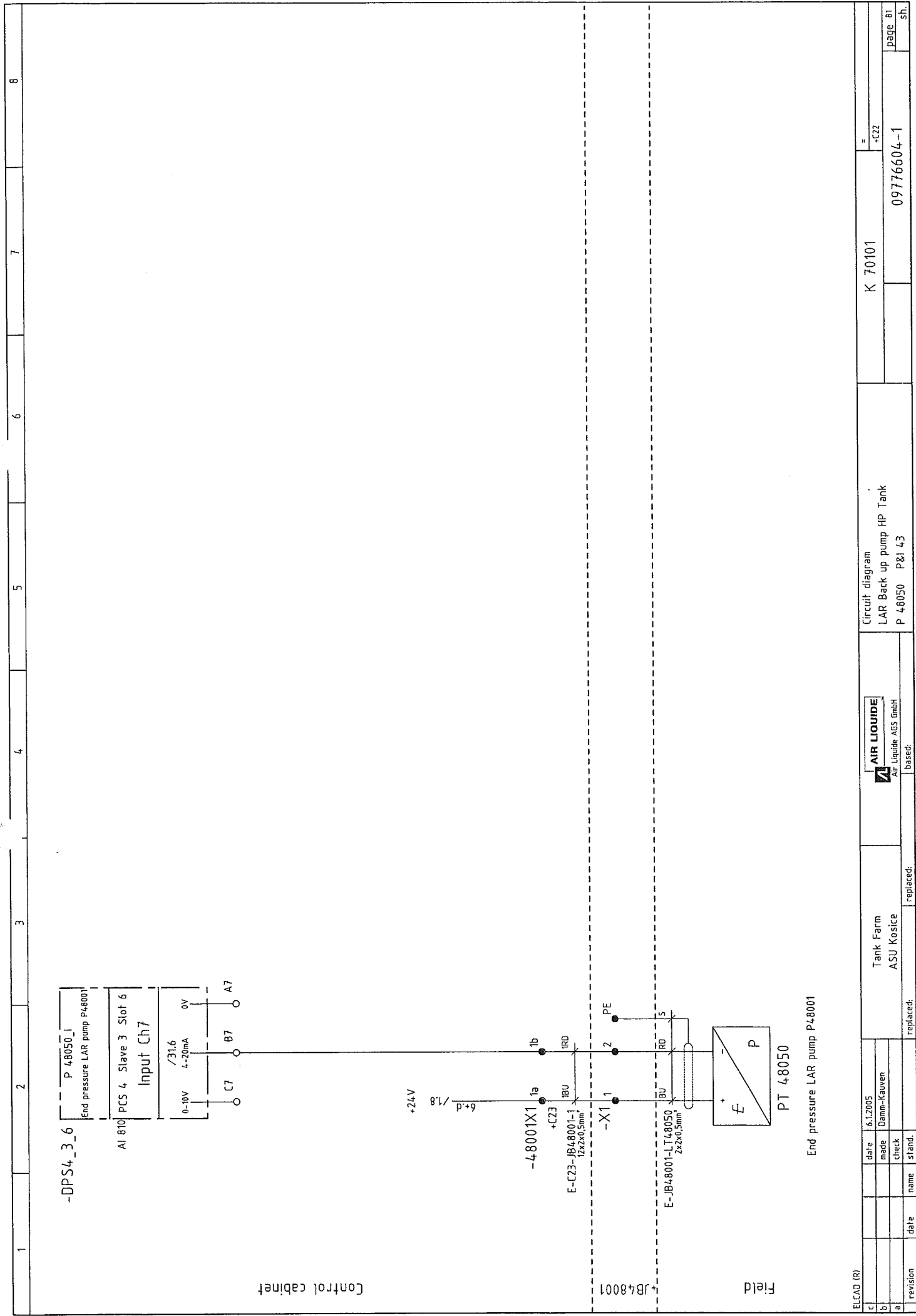
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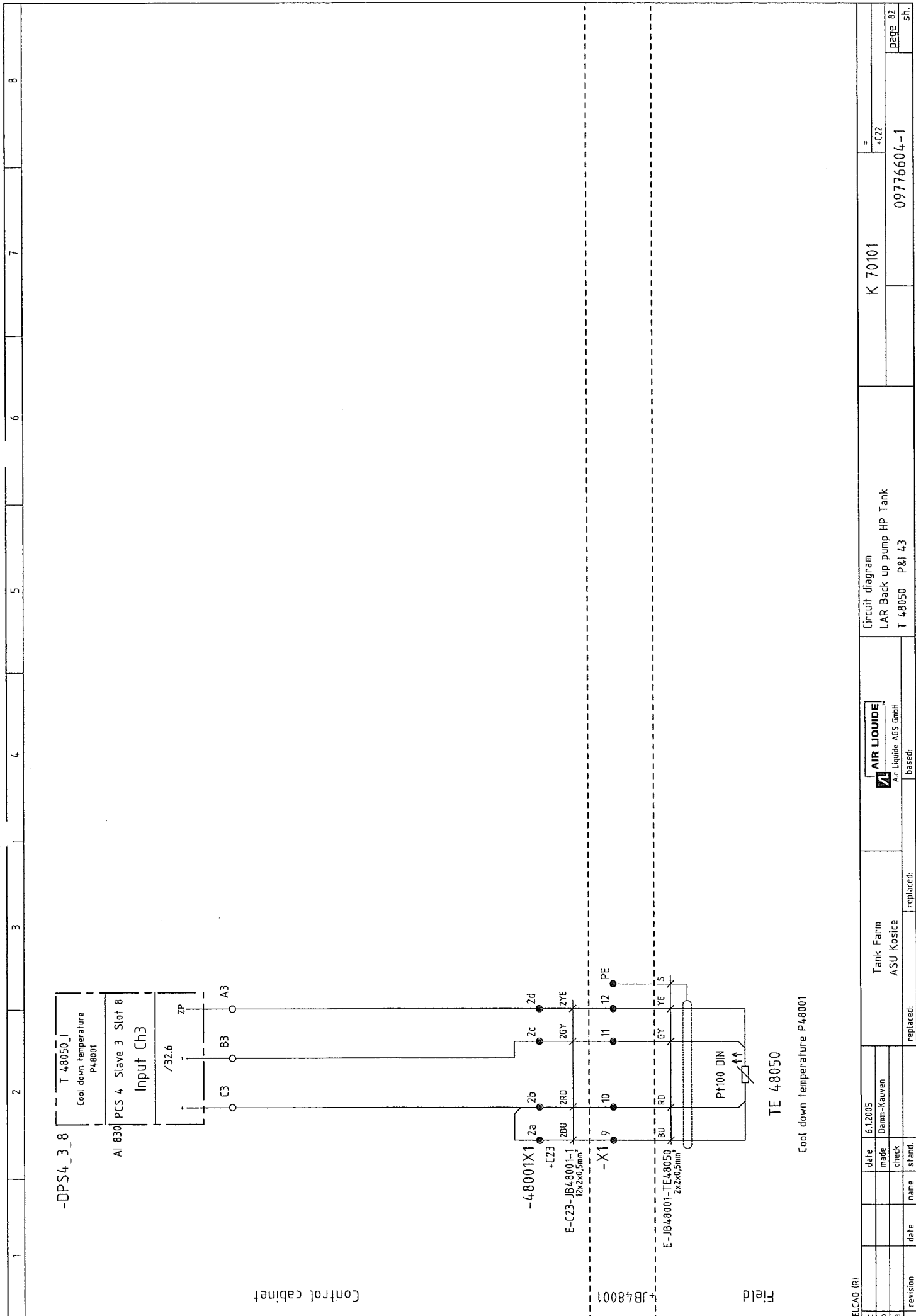
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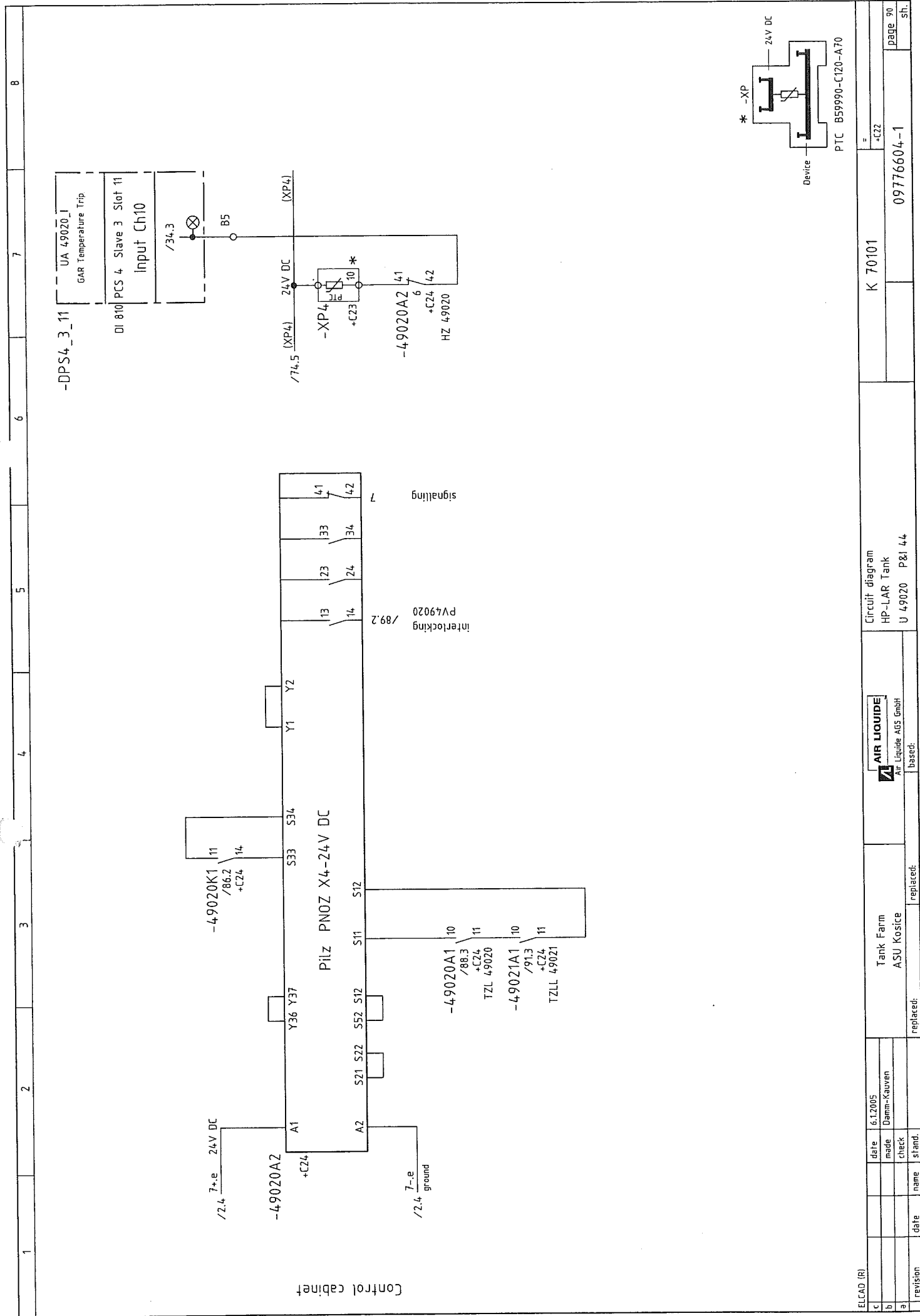


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Control cabinet															
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c		date		6.12005		Tank Farm		Circuit diagram		K 70101		=		-C22	
b		made		Damm-Kauren		ASU Kosice		HP-LAR Tank						page 86	
a		check				replaced:		H 49020 P&I 44						sh.	
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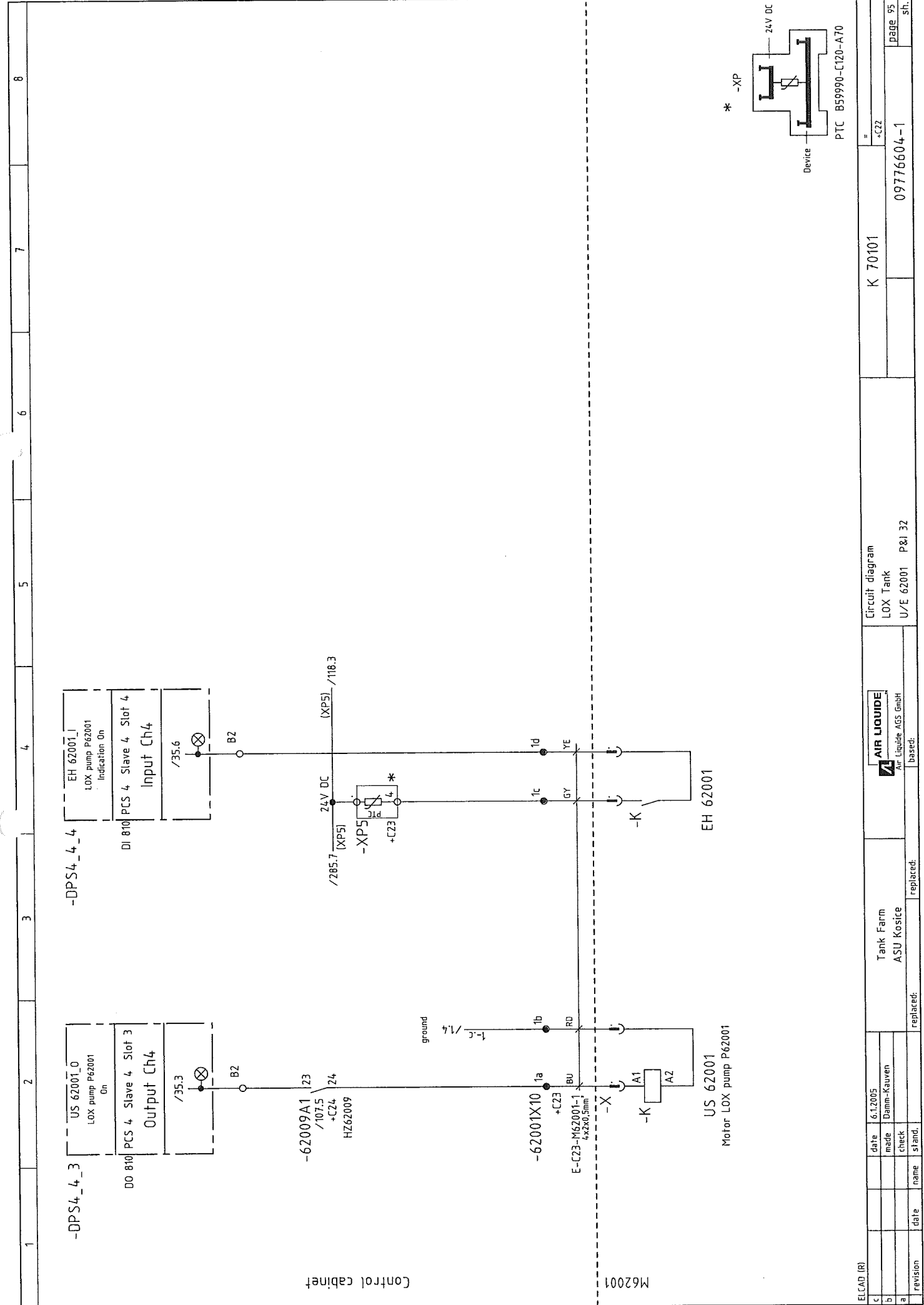
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Tank Farm ASU Kosice	replaced:
	replaced:

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Circuit diagram	
Spare	K 70101
= -C22	

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page 93	





ELCAD (R)		K 70101		Circuit diagram		LOX Tank		U/E 62001 P&I 32		09776604-1		page 95
c												sh.
b												
a												
revision	date	name	stand.	replaced:	replaced:	Tank Farm	ASU Kosice	replaced:	replaced:	based:	AIR LIQUIDE	
	6.12.2005	Damm-Kaiven				Air Liquide AGS GmbH						

