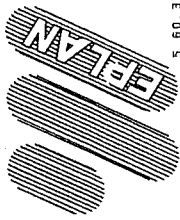


Created with



5.60.3

Manufacturer : AREVA
Energietechnik GmbH
Plant designation: LowVoltMainDistr

Drawing number :
Project : Kosice
Project No. :
Disk No. :

Project start : 07.05.05
Responsible for project : Otten
Last change : 28.12.05
Last user : BRE

Number of pages : 378

Date		07.05.05		Act.		LVMD		AREVA		ATR		Cover		Zust.		Pg.		= LVMD		Pg.		Pg.	
Rev03		28.12.05		BRE		Checked		Editor		Otten		Area		Kosice		System		LowVoltMainDistr		Project-No.		1_169_05_20	
State		Date		Name		Name		Name		Name		Name		Name		Name		Name		Name		Name	
1		2		3		4		5		6		7		8		9		10		11		12	
1		2		3		4		5		6		7		8		9		10		11		12	
1		2		3		4		5		6		7		8		9		10		11		12	

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Table of contents															
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+ Area															
Page															
Last state															
Drawing No.															
Page															
Reserve															
MCC Unit M13100															
MCC Unit M13200															
+Field2-X5															
+Field2-XH2															
+Field2-XS2.5.1															
+Field2-XS2.5.2															
+Field2-XS2.5.3															
+Field2-XS2.5A															
+Field2-XS2.5B															
+Field2-XS2.5C															
+Field2-XS2.6.1															
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MCC Unit M624101															
MCC Unit M624101															
B															
C															
D															
E															
F															
Table of contents															
AIR															
Liquide															
AREVA															
Energie-technik GmbH															
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3															
4															
5															
6															
7															
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Rev03															
28.12.05															
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378															
Pg.															
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Project-No.															
1_169_05_20															
3551/169-05															
Pg.															
22															
Pg.															
8															

Table of contents

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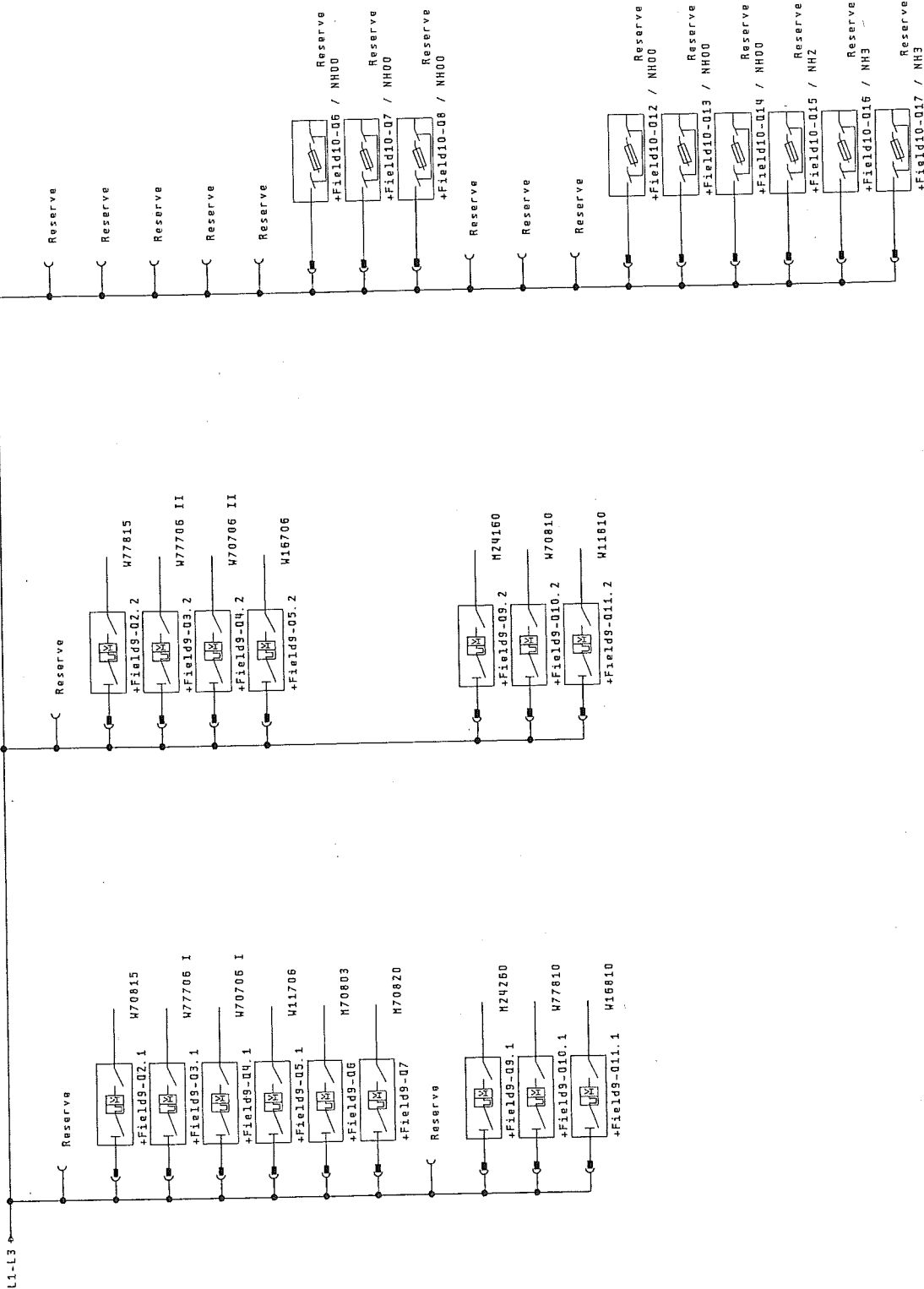
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```
+LWVD      Low Voltage Main Distribution
+Field1...12 General building, field 1 to 12
CB         Control cabinet
ES         Emergency stop
```

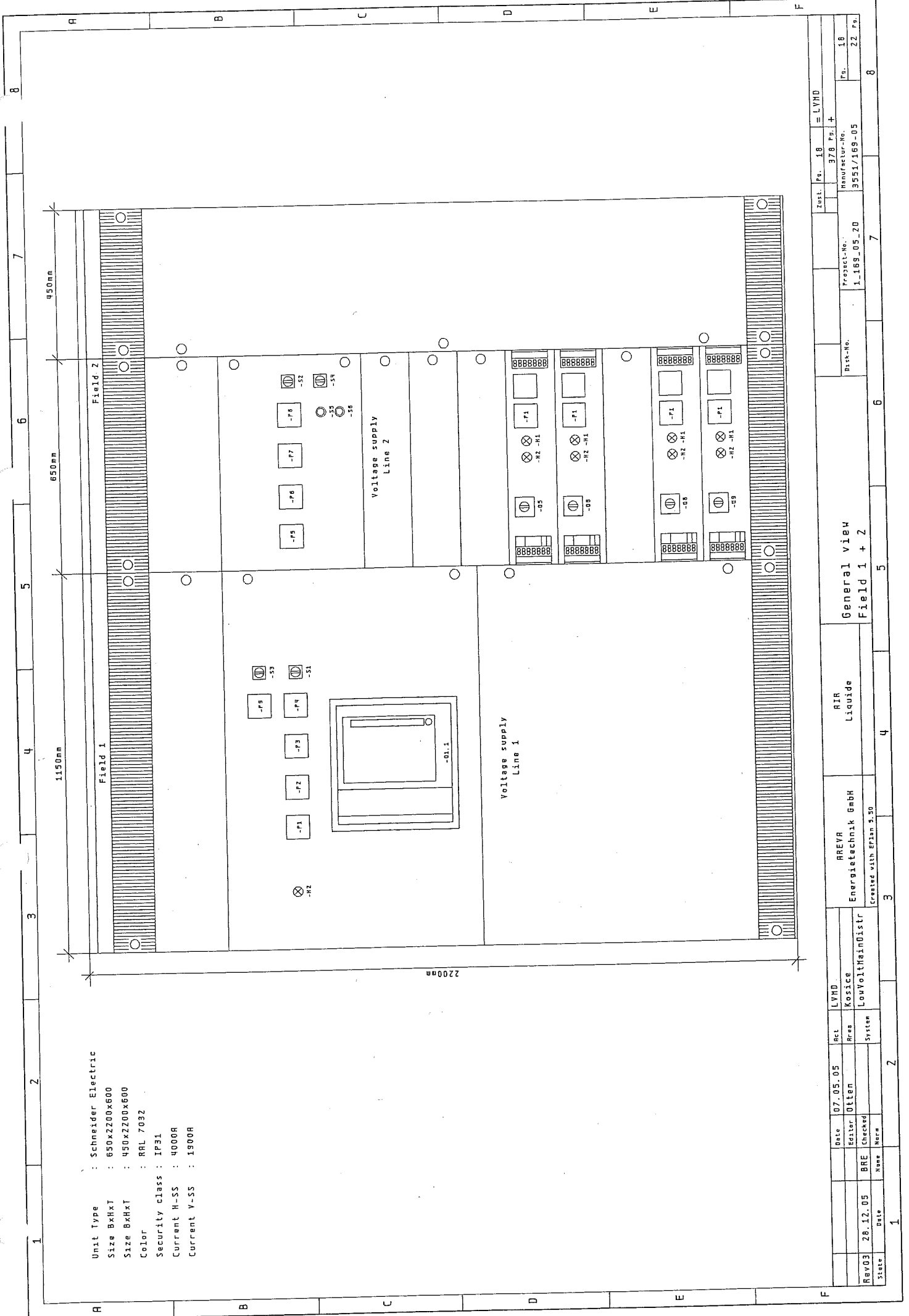
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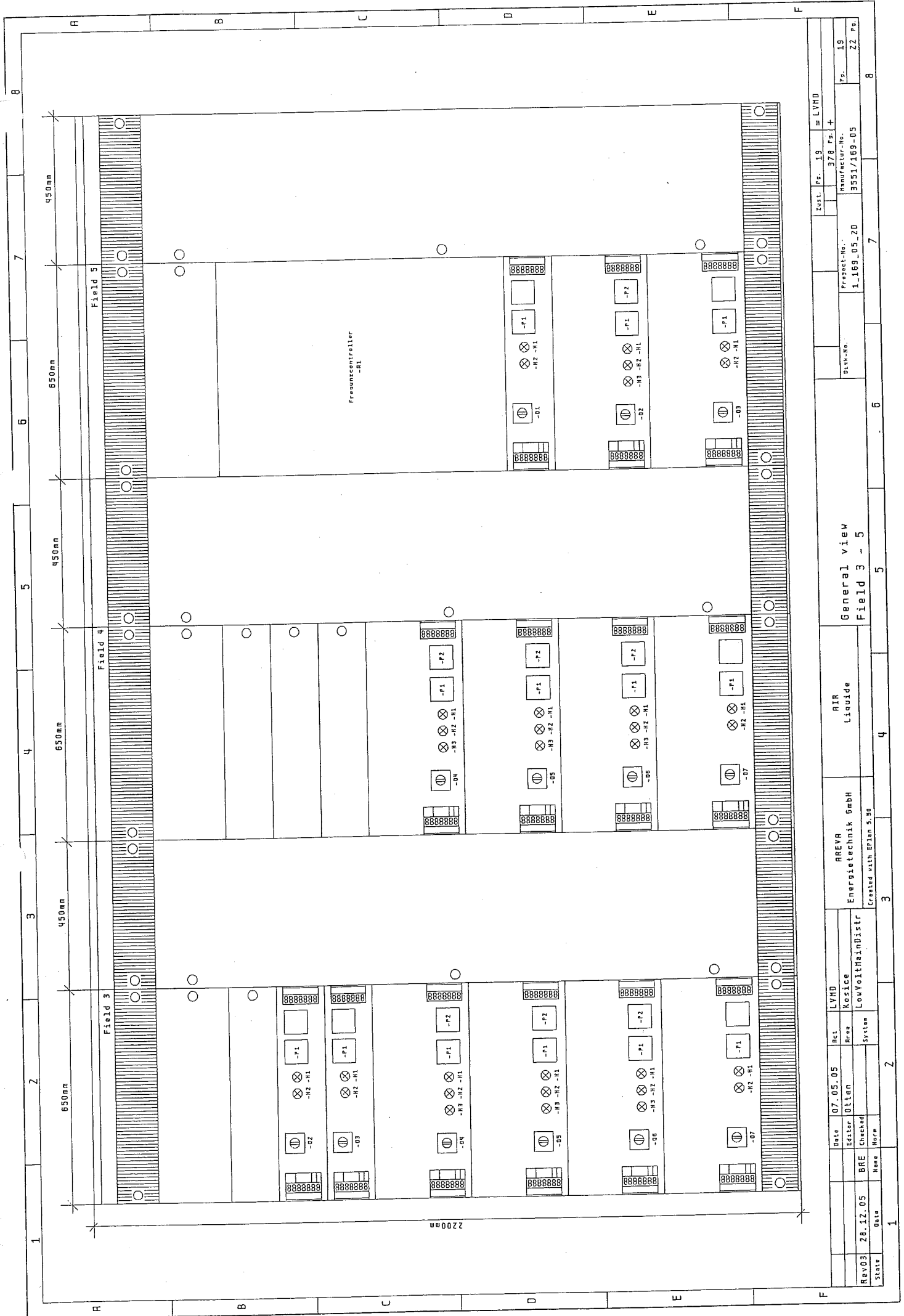
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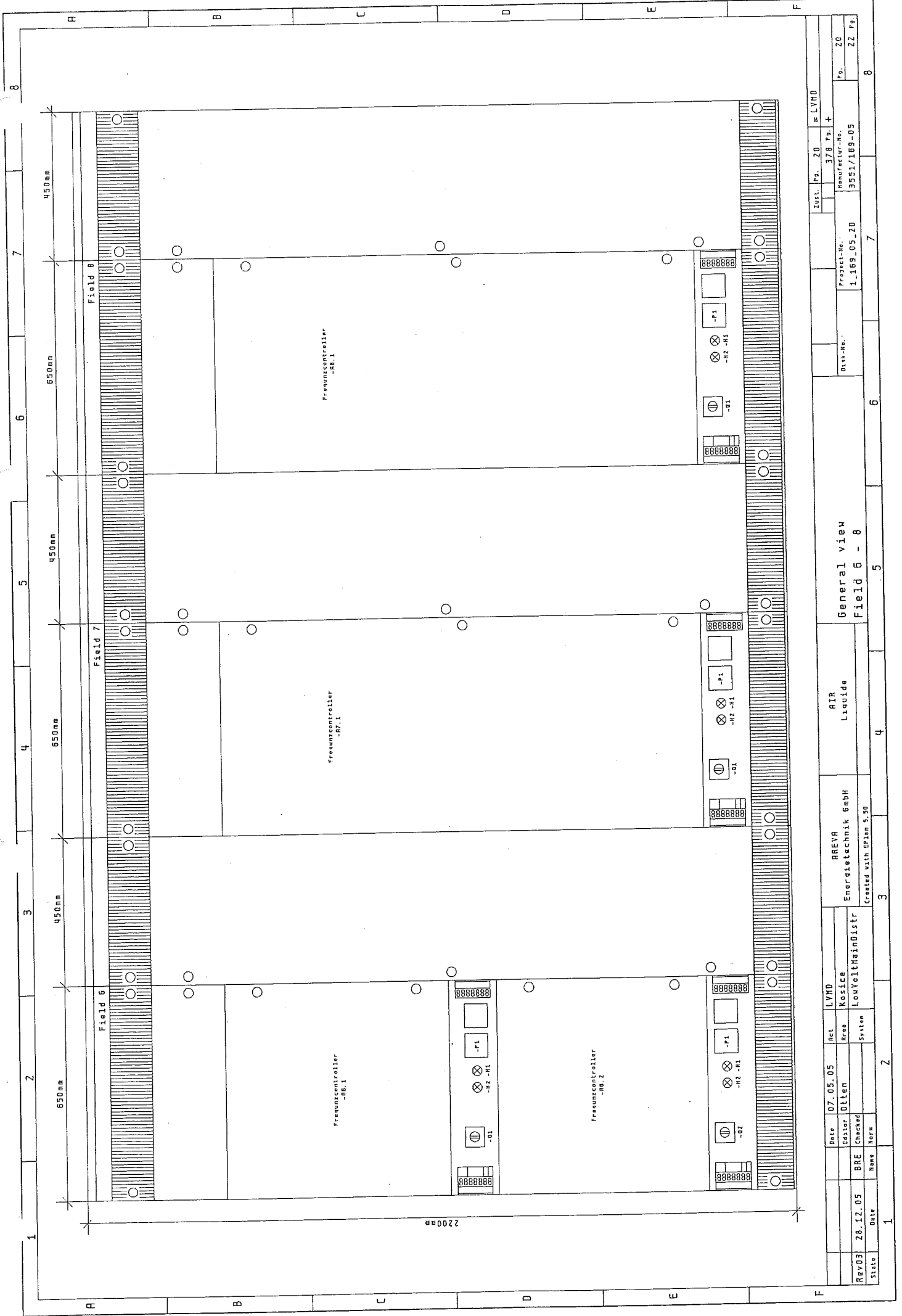
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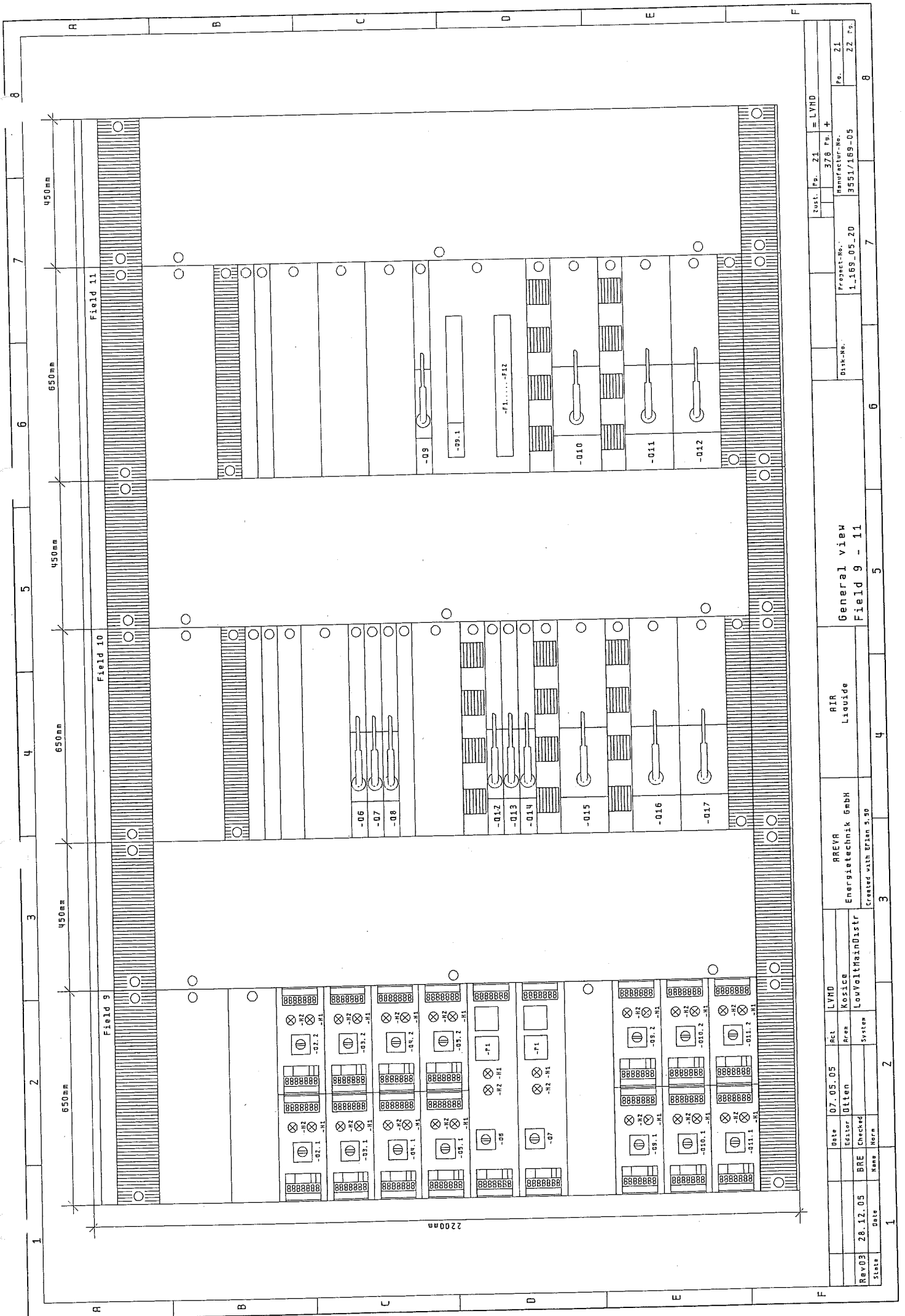
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Date		28.12.05	State	Rev03	Date		28.12.05	State	Rev03
AREVA Energietechnik GmbH					AIR Liquide				
Created with EPLAN 5.50					General view 1pol.				
Project-No. 1_169_05.20					Project-No. 1_169_05.20				
Disk-No. 3551/169-05					Disk-No. 3551/169-05				
Zust. Pg. 16					Zust. Pg. 16				
= LVND					= LVND				
378 Pg. +					378 Pg. +				
Pg. 16					Pg. 16				
22 Pg.					22 Pg.				

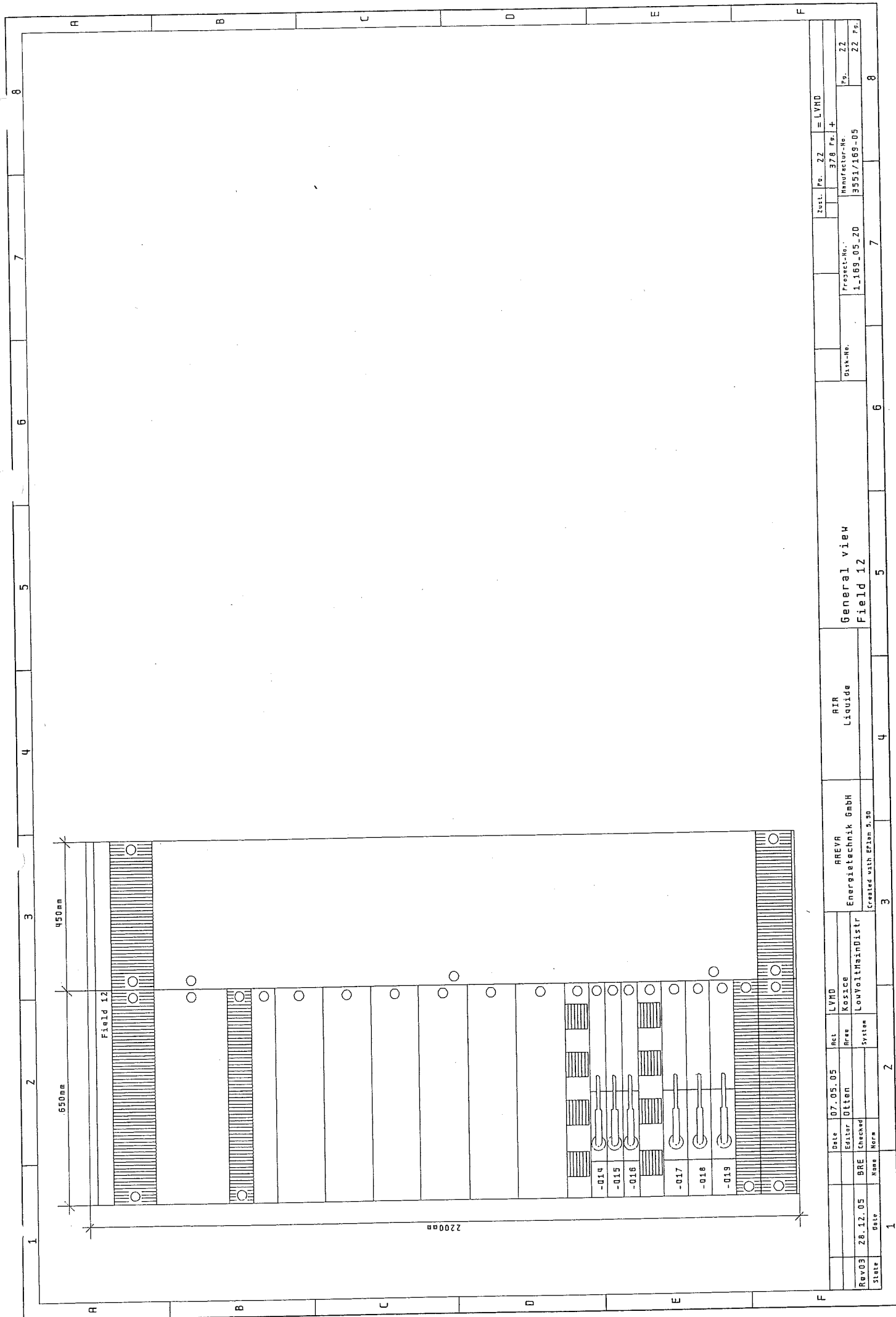




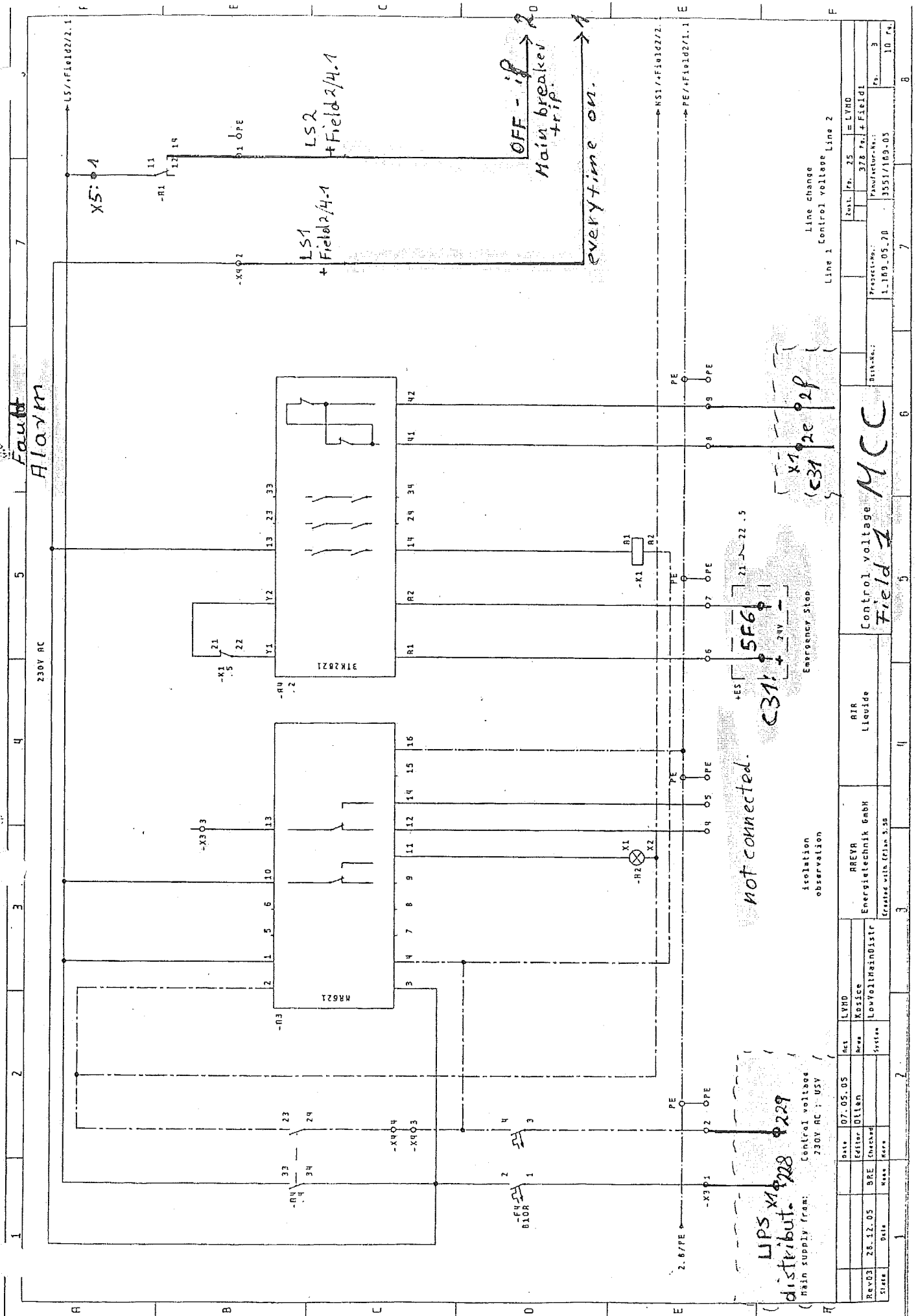


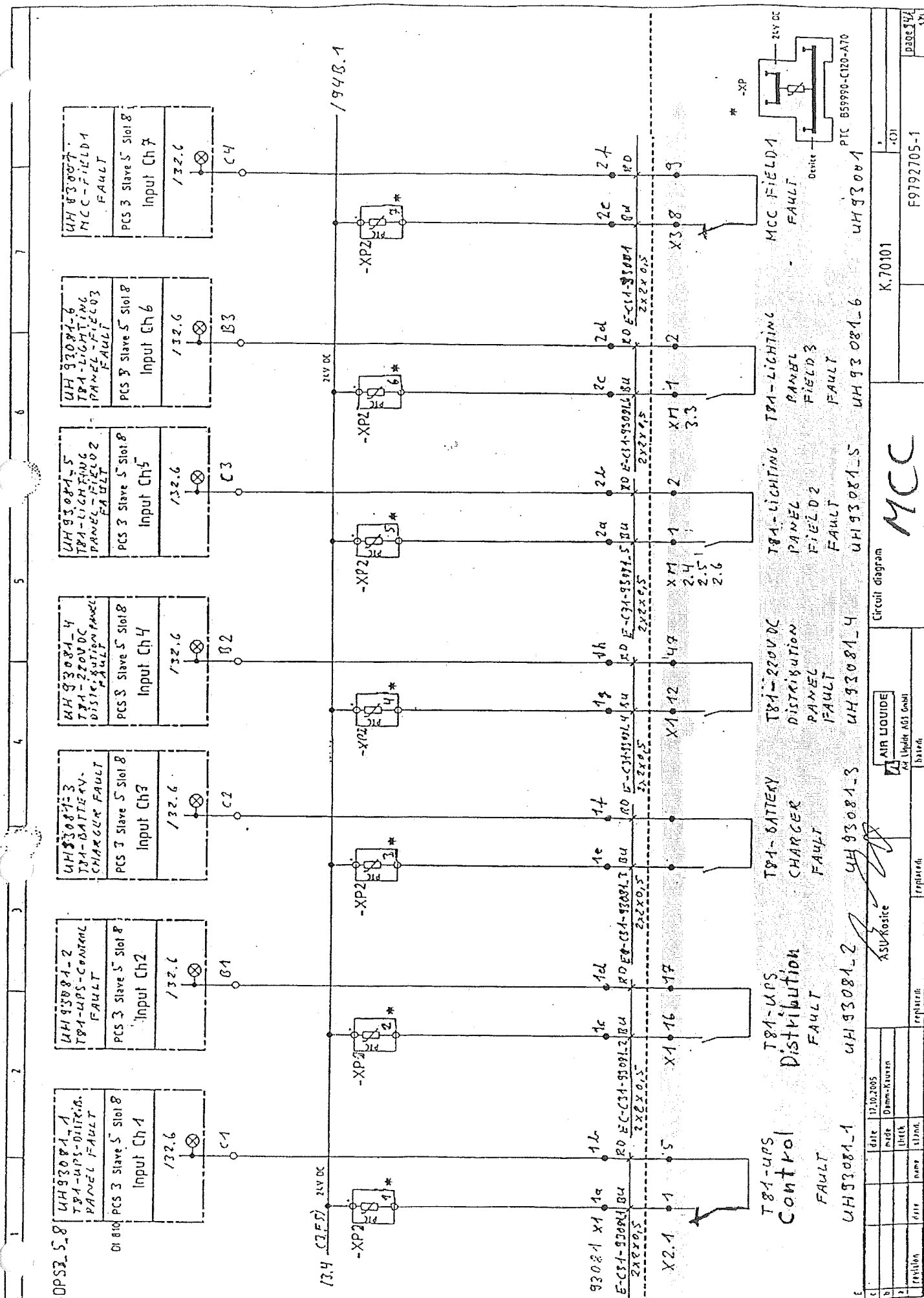
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Editor		Otten	Free	Kosice	Energietechnik GmbH		Liquide		Field 6 - 8		Pg. 378 Pg. +		Pg. 20	
BRE		Checked	System	LouVollMainDistr	Created with EPLAN 5.50				Project-No. 1.169.05.20		Pg. 22 Pg.		Pg. 22 Pg.	
State		Date	Name						Disk-No. 3551/189-05					

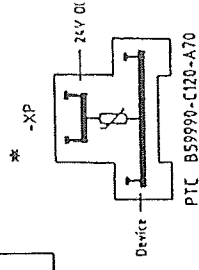
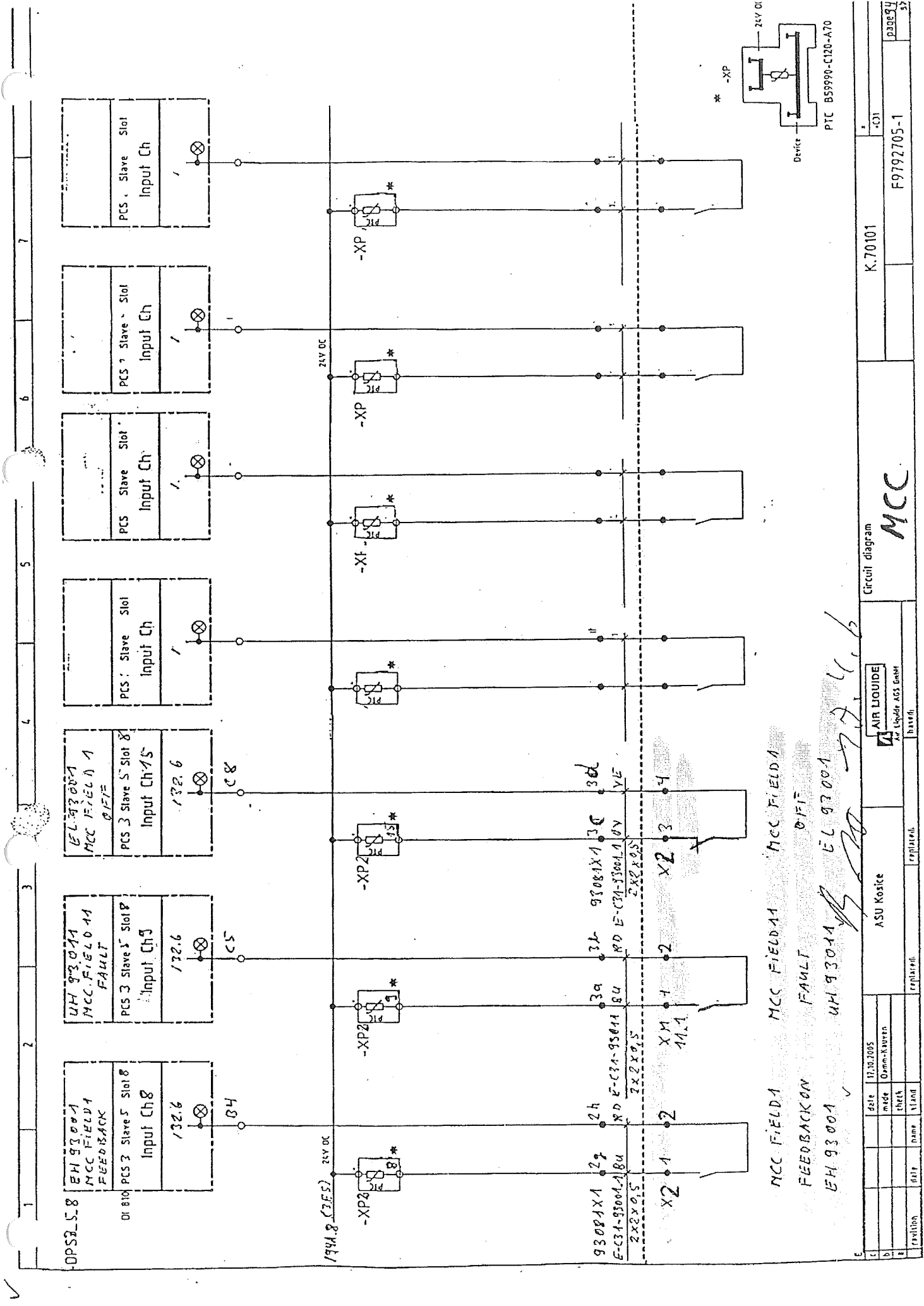




Fault
Flavm

[illegible]





PTC BS9990-C120-A70
K.70101
F9792705-1
page 94

Circuit diagram

MCC

AIR LIQUIDE

ASU Kosite

date 12.02.2005
made Omm-Kuuten
check
name
value

replaced

replaced

replaced

replaced

[illegible]

1	2	3	4	5	6	7	8
terminalblock: +Field1-X2							
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notes and identification		notes and identification		notes and identification		notes and identification	
Link		Link		Link		Link	
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2		2		2		2	
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
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5		6		7		8	

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[illegible]

[illegible]

terminalblock: +Field1-XW1

and

notes and
identification

Link

Classnumber

end

notes and
identification

LVHD-P1: 1
LVHD-P2: 2
LVHD-P3: 1
LVHD-P4: 2
LVHD-P5: 1
LVHD-P6: 2

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2 - LVHD-T1
3 - LVHD-T2
4 - LVHD-T2
5 - LVHD-T3
6 - LVHD-T3

Rev03	28.12.05	Editor	07.05.05	Rev	LVHD	AREVA	RIR	+Field1-XW1	Field 1	Project-No.	378 Pa. +Field1	32	378 Pa. +Field1	10
State	28.12.05	Editor	07.05.05	Rev	LVHD	Energietechnik GmbH	Liquide			Dist-No.	1.169-05-20	32	378 Pa. +Field1	10
		Checked				Created with Eplan 5.30								



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Field 2

1		2		3		4		5		6		7		8	
<div>400V RC : 3/PE 50Hz : 50kV / 1sek.</div> <div> <div>1.8/L1</div> <div>1.8/L2</div> <div>1.8/L3</div> </div> <div> <div>LS1/5.1</div> <div>LS2/5.1</div> <div>LS3/5.1</div> </div>															
<div> <div>+Field1/3.7/LS1</div> <div>+Field1/3.8/LS2</div> <div>3.2/NS1</div> <div>1.8/PE</div> </div> <div> <div>LS1/5.1</div> <div>LS2/5.1</div> <div>NS1/5.1</div> <div>PE/5.1</div> </div>															

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Editor		Ottien		Area		Kosice		Product-No.		378		+ Field2	
Checked				System		LowVoltageInDistr		Manufacturer-No.		3551/169-05		Ps.	
Date		28.12.05		BRE		Name		Disk-No.		1_169_05_20		Ps.	
State		Rev03						Reserve		AIR		Liquide	
								AREVA		Energie-technik GmbH		Created with EPLAN 5.50	
								3		4		5	
								6		7		8	

400V AC : 3/PE 50Hz : 50kA / 1sek.

q. 8/L1

q. 8/L2

q. 8/L3

L1/6.1

L2/6.1

L3/6.1

q. 8/LS1

q. 8/LS2

q. 8/NS1

q. 8/PE

LS1/6.1

LS2/6.1

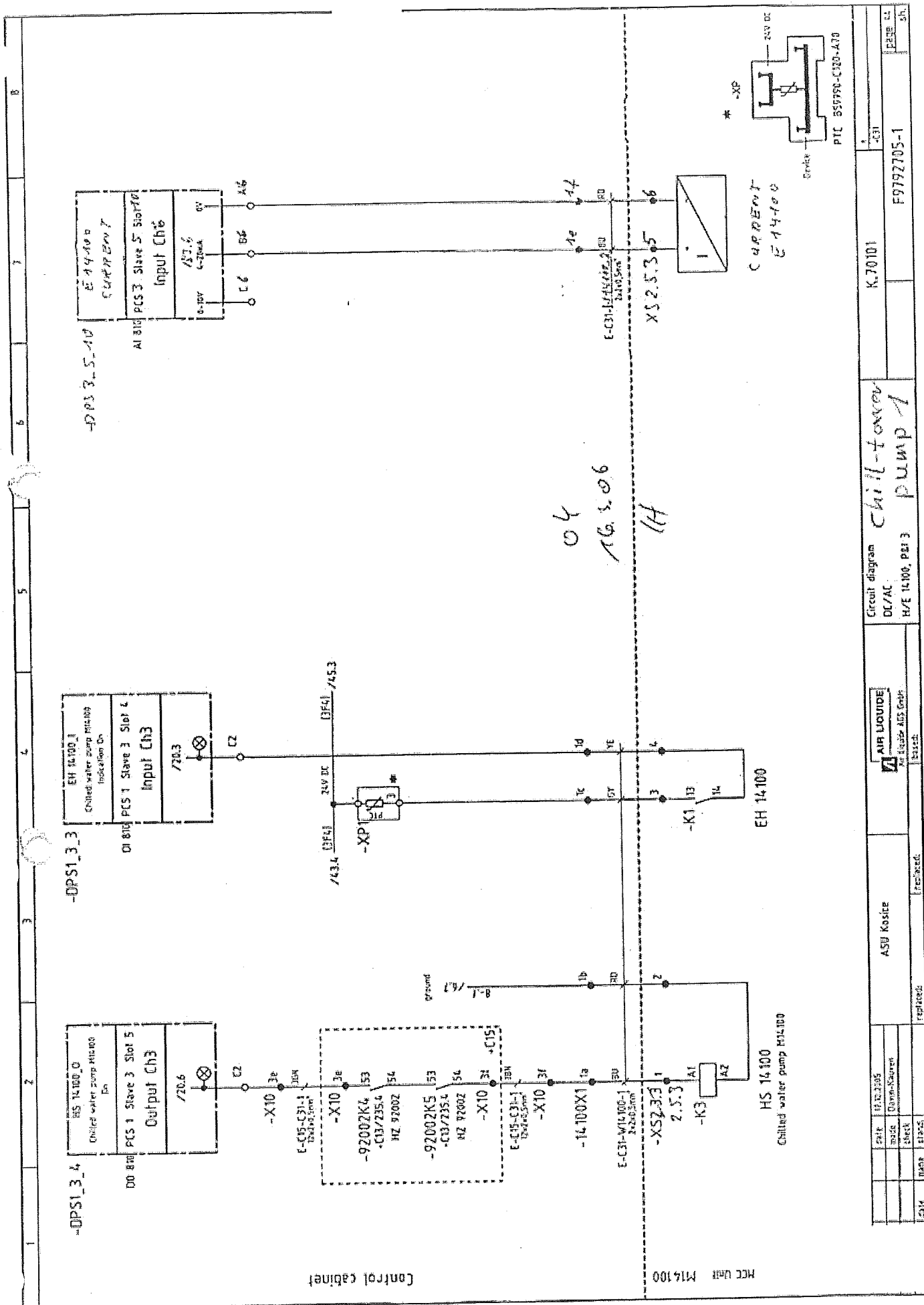
NS1/6.1

PE/6.1

Rev03	28.12.05	BRE	Checked	Date	10.05.05	Act	LYND	AREVA	AREVA Energietechnik GmbH	AIR	Reserve	Zust.	Pa.	37	= LYND	
State	Date	Name	Area	System	Editor	Area	Area	Area	Area	Area	Area	Project-No.	Project-No.	Project-No.	Project-No.	
					Otten		Kosice	Energietechnik GmbH	Energietechnik GmbH	Liquide	Reserve	1.169.05.20	1.169.05.20	3551/169-05	3551/169-05	
							LouVolthainDistr	Created with EPLAN 5.50								

1	2	3	4	5	6	7	8
<div> <div> <div>400V AC : 3/PE</div> <div>50Hz : 50kV / 1sek.</div> </div> <div> <div>5.8/L1</div> <div>5.8/L2</div> <div>5.8/L3</div> </div> <div> <div>5.8/LS1</div> <div>5.8/LS2</div> <div>5.8/NS1</div> <div>5.8/PE</div> </div> <div> <div>LS1/7.1</div> <div>LS2/7.1</div> <div>NS1/7.1</div> <div>PE/7.1</div> </div> </div>							
<div> <div> <div>5.8/LS1</div> <div>5.8/LS2</div> <div>5.8/NS1</div> <div>5.8/PE</div> </div> <div> <div>LS1/7.1</div> <div>LS2/7.1</div> <div>NS1/7.1</div> <div>PE/7.1</div> </div> </div>							

Rev03	Date	28.12.05	BRE	Checked	Date	07.05.05	Act	LVMD	Kosice	LowVoltMainDistr	AREVA Energietechnik GmbH	AIR Liquide	Reserve	Disk-No.	1.169_05_20	Project-No.	3551/169-05	378 Pe. + Field2	Zust. Pg. 38	= LVMD	Pg.	6	
																							37

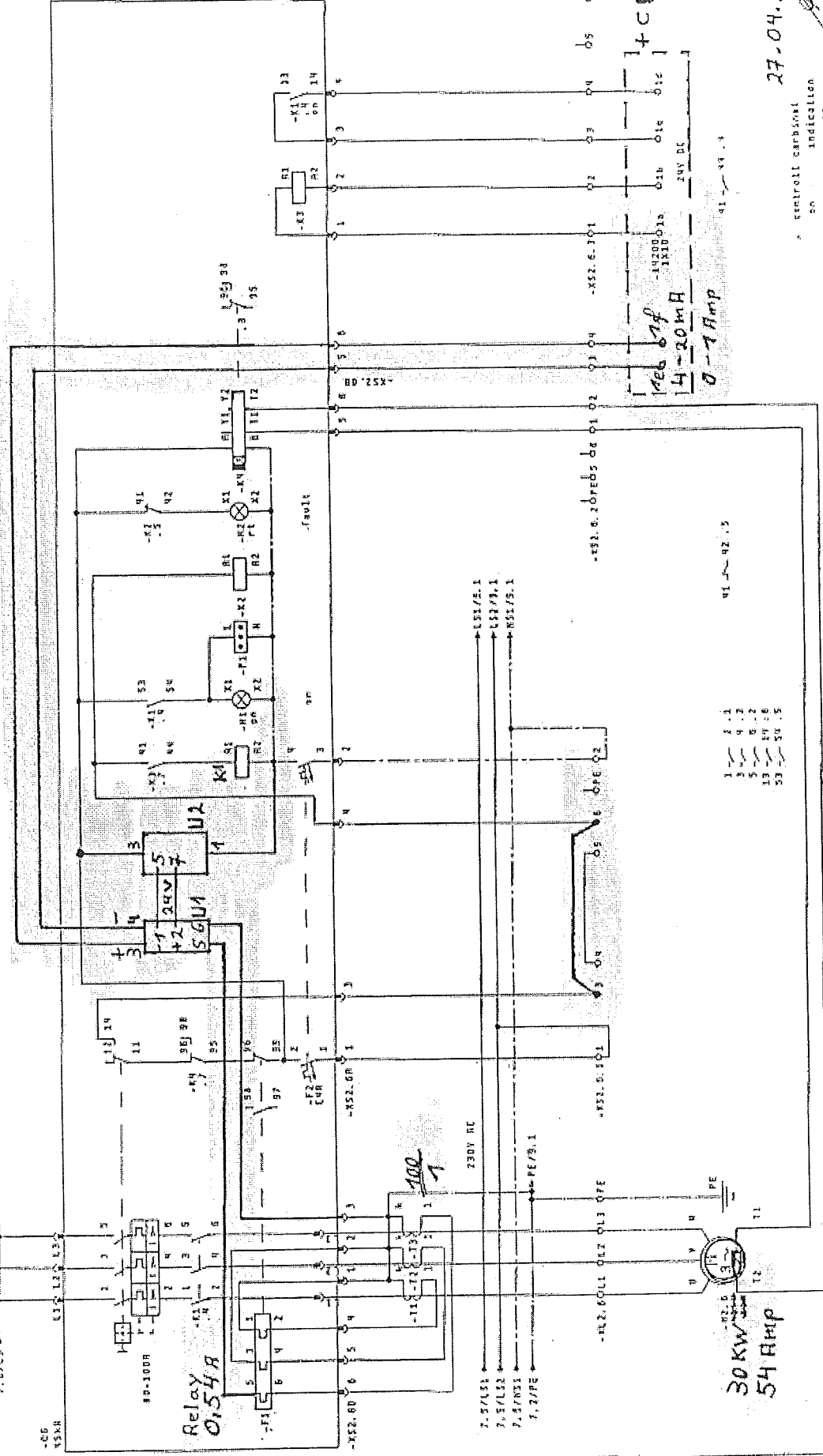


DATE	10-12-95	ASU Kosice	<input checked="" type="checkbox"/> AIR LIQUIDE <input type="checkbox"/> AIR FRANCE <input type="checkbox"/> AIR EUROPE	Circuit diagram DC/AC H/E 14/00, p21 3	chill-tonner pump 1	K.70101	-331	PAGE 42	F0792705-1	sh.
TIME	10:24									
BY	David Sauer									
REMARKS	replaced									

400V AC TYPE 50Hz / 50A / 13kV

Measurement
CURRENT

7.0/L1
7.0/L2
7.0/L3



30kW
54Amp

1 1.1
2 1.2
3 1.3
4 1.4
5 1.5
13 1.6
53 1.7

27.04.2006
control cabinet
indication

HCC Unit
H14200

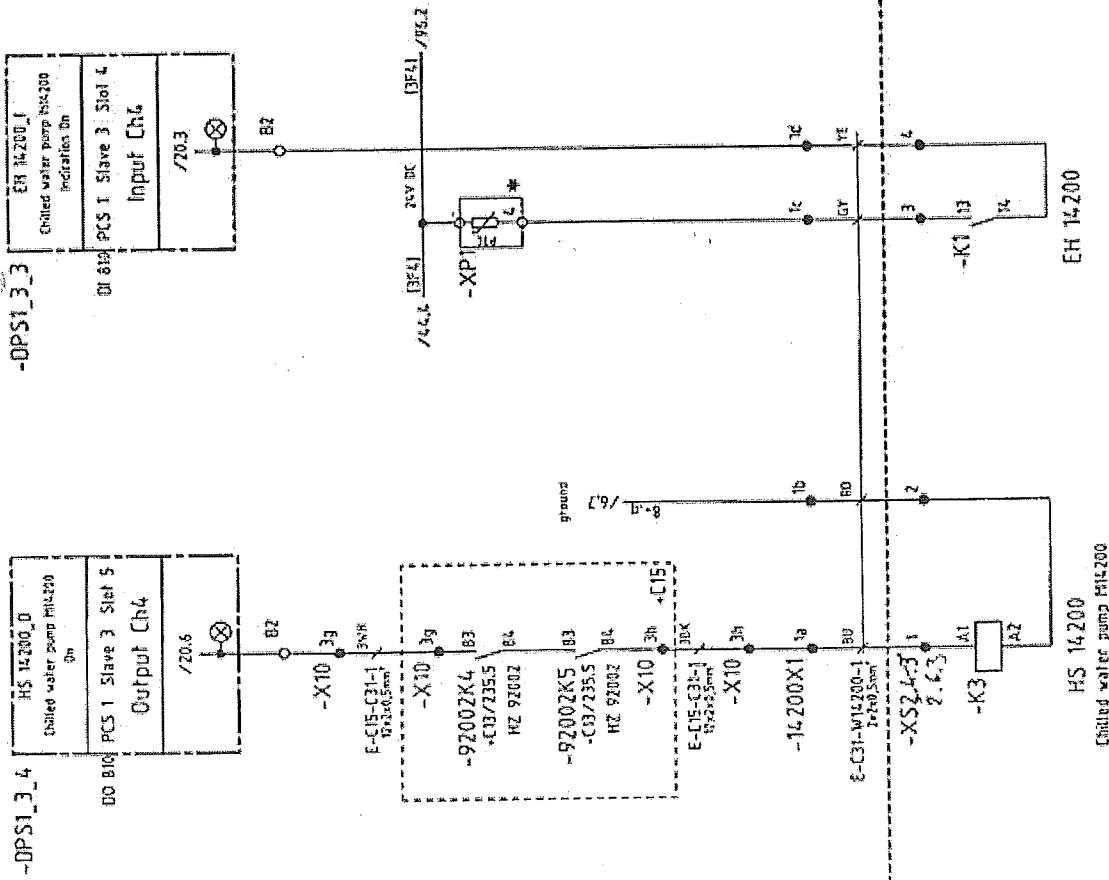
Emergency stop button
Emergency stop button

NO.	DATE	BY	REVISION
1	27.04.05	MS	1
2	28.12.05	ONE	2
3	28.12.05	ONE	3
4	28.12.05	ONE	4
5	28.12.05	ONE	5
6	28.12.05	ONE	6
7	28.12.05	ONE	7
8	28.12.05	ONE	8
9	28.12.05	ONE	9
10	28.12.05	ONE	10
11	28.12.05	ONE	11
12	28.12.05	ONE	12
13	28.12.05	ONE	13
14	28.12.05	ONE	14
15	28.12.05	ONE	15
16	28.12.05	ONE	16
17	28.12.05	ONE	17
18	28.12.05	ONE	18
19	28.12.05	ONE	19
20	28.12.05	ONE	20
21	28.12.05	ONE	21
22	28.12.05	ONE	22
23	28.12.05	ONE	23
24	28.12.05	ONE	24
25	28.12.05	ONE	25
26	28.12.05	ONE	26
27	28.12.05	ONE	27
28	28.12.05	ONE	28
29	28.12.05	ONE	29
30	28.12.05	ONE	30

30kW
54Amp

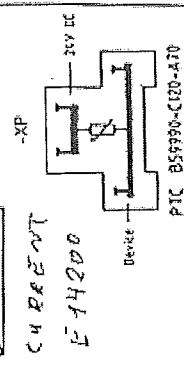
Control cabinet

MCC unit M14200



OK
26.3.06
11A

Date		11.03.2005	ASU Kosice		AIR LIQUIDE		Circuit diagram		K.70101		-C31		DATE		5h	
Made		Parametrisation					DC/AC									
Check							H/E 14200, P813									
Name							chill tower									
Signature							pump 2									
Date																
Signature																
Date																
Signature																



PIC B59990-C120-A70

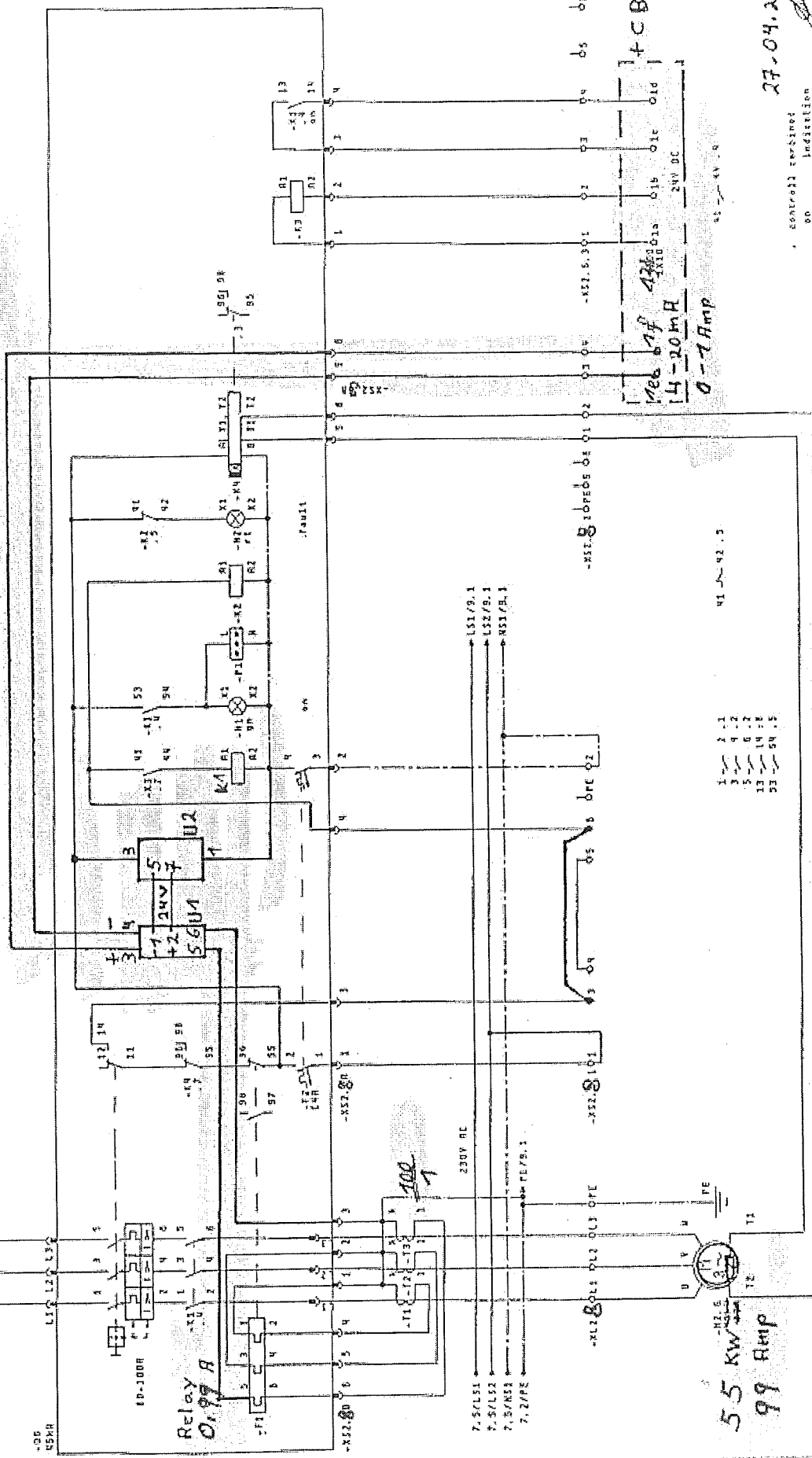
1		2		3		4		5		6		7		8	
<div> <div> <div>400V AC : 3/PE</div> <div>50Hz : 50kA / 1sek.</div> </div> </div>															
<div> <div>8.8/L1</div> <div>8.8/L2</div> <div>8.8/L3</div> </div>															
<div> <div>8.5/LS1</div> <div>8.5/LS2</div> <div>8.5/NS1</div> <div>8.2/PE</div> </div>															
<div> <div>LS1/10.1</div> <div>LS2/10.1</div> <div>NS1/10.1</div> <div>PE/10.1</div> </div>															

Date		07.05.05		Act		LVMD		RREVA		AIR		Reserve		Zust.		Pa.		41		= LVMD	
Editor		Ottien		Ress		Kosice		Energiatechnik GmbH		Liquide				378 Pa.		+ Field					
Checked				System		LowVoltMainDistr		Created with EPLAN 5.50						Project-No.		1_169_05_20		Manufacturer-No.		3551/169-05	
Date		28.12.05		Name		BRE								Disk-No.				Ps.		9	
State		Rev03																Ps.		37 Pa.	

NOV 04 11:54 SCH 2: 100V 1 100V

Measurement
CURRENT

2. 10/11
7. 10/12
7. 10/13



27-04-2006

Controlled revision
Indication

Rev	Date	By	Check	Drawn	Scale	Notes	Project	Sheet	Total
Rev03	28.12.05	SE	Rev02	Rev01	Rev00	Rev00	1.103.01.20	3551/103-05	37
Rev02	28.12.05	SE	Rev01	Rev00	Rev00	Rev00	1.103.01.20	3551/103-05	37
Rev01	28.12.05	SE	Rev00	Rev00	Rev00	Rev00	1.103.01.20	3551/103-05	37
Rev00	28.12.05	SE	Rev00	Rev00	Rev00	Rev00	1.103.01.20	3551/103-05	37

DC/AC
pump 1

HCC Unit
M3300

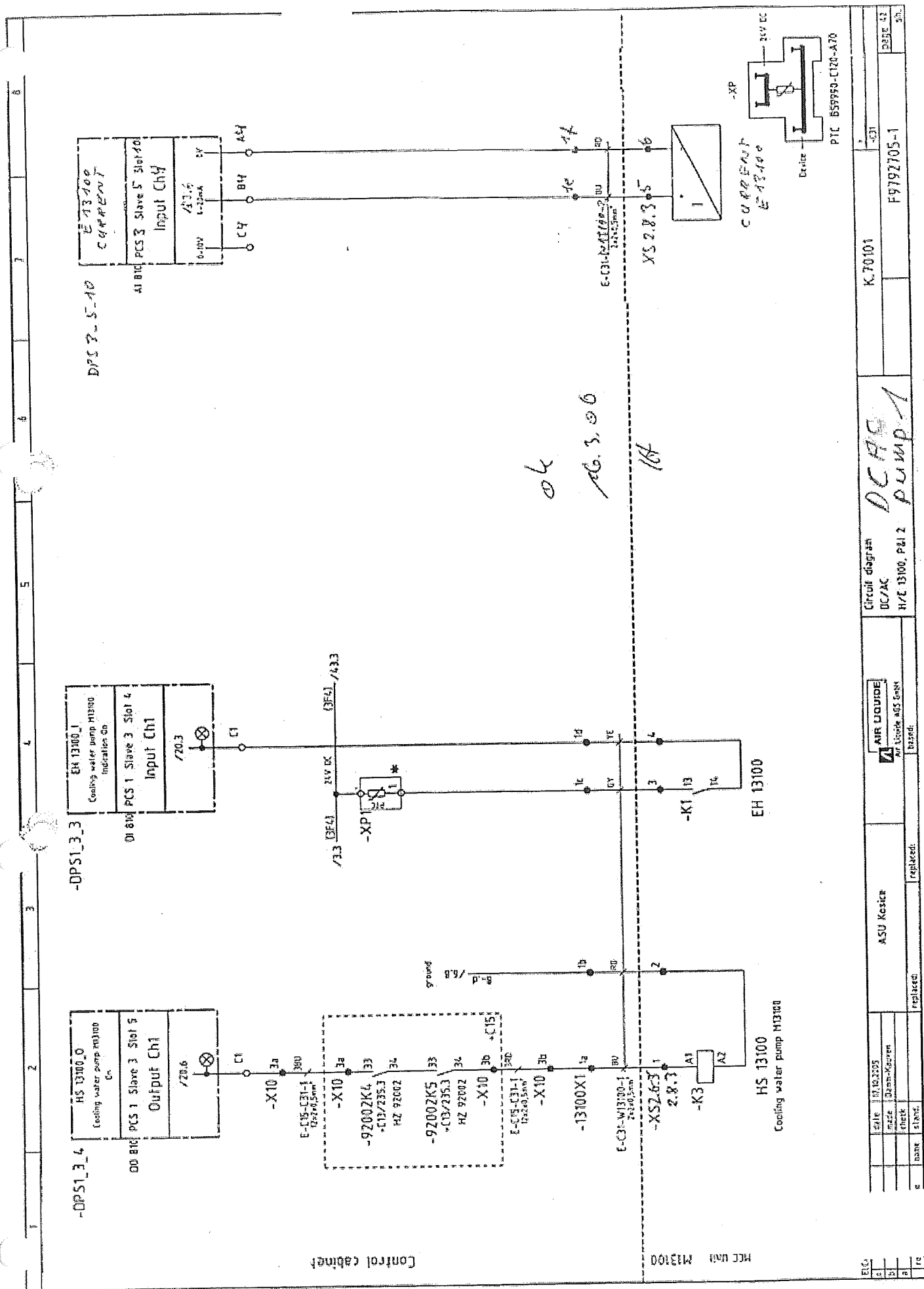
MTR
Liquide

ARECO
Energetische GmbH

Rev03
28.12.05

Rev02
28.12.05

Rev01
28.12.05

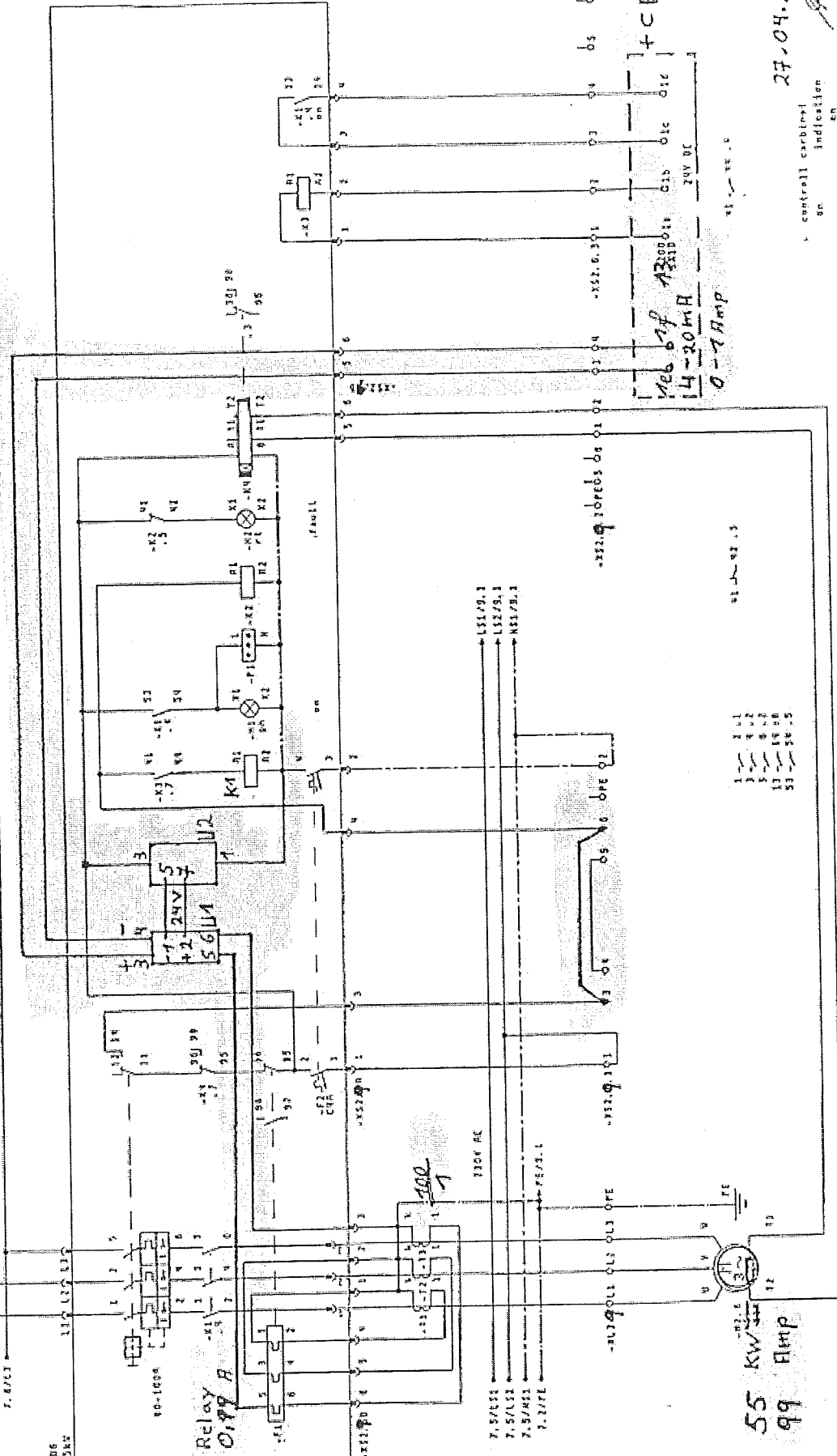


10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

480V AC 3P/4E 50Hz : 50kV / 11kV

Measurement
Circuit

7.8/11
7.8/12
7.8/13
7.8/14
7.8/15
7.8/16
7.8/17
7.8/18
7.8/19
7.8/20
7.8/21
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7.8/95
7.8/96
7.8/97
7.8/98
7.8/99
7.8/100



27.04.2006
control carburettor
on indication

DCAC pump 2

MCC Unit H3200

AIR Liquide

Emergency Stop

Control with remote line

Low Voltage Protection

Emergency Stop

Emergency Stop

Emergency Stop

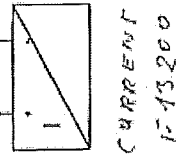
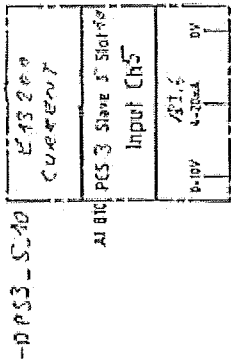
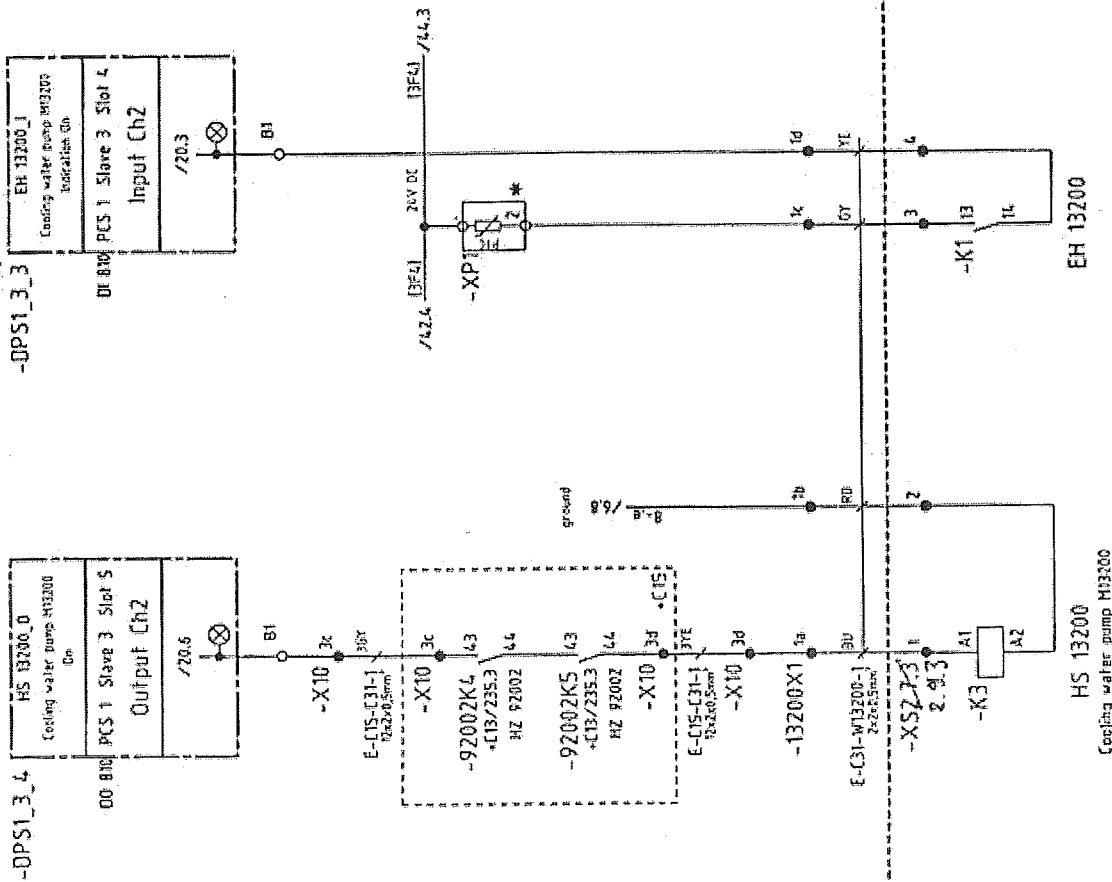
Emergency Stop

Emergency Stop

Emergency Stop

Control cabinet

MCC Unit M13200



date	12.10.2005	ASU Koste	Circuit diagram	K.70101	DATE 43
made	Dr. K. Koste		DC/AC		50
check			H/E 13200, P&I 2	F9792705-1	
name					
status					
replaced					
based					

[illegible]

[illegible]

[illegible]

terminal block: +Field2-XS2.6.3

and

notes and
identification

LINE
CLASS NUMBER

and

notes and
identification

4CB-142001X10 C31-X1: 1a
4CB-142001X10 C31-X1: 1b
4CB-142001X10 C31-X1: 1c
4CB-142001X10 C31-X1: 1d

1 -XS2.6B
2 -XS2.6B
3 -XS2.6B
4 -XS2.6B

5

6

PE

4Field2-XS2.6.3

RIP
Liquide

BRERA
Energietechnik GmbH
Revised 10/10/2003

10/10/2003
Revised
10/10/2003

10/10/2003
Revised
10/10/2003

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Revised
10/10/2003

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

terminal block: +Field2-XS2.90

and
notes and
identification

blank

and
notes and
identification

1 -LYND-09-F1
2 -LYND-09-F1
3 -LYND-09-F1
4 -LYND-09-F1
5 -LYND-09-F1
6 -LYND-09-F1

+Field2-XS2.90

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and
notes and
identification

1 -LYND-09-F1
2 -LYND-09-F1
3 -LYND-09-F1
4 -LYND-09-F1
5 -LYND-09-F1
6 -LYND-09-F1

1 -LYND-09-F1
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5 -LYND-09-F1
6 -LYND-09-F1

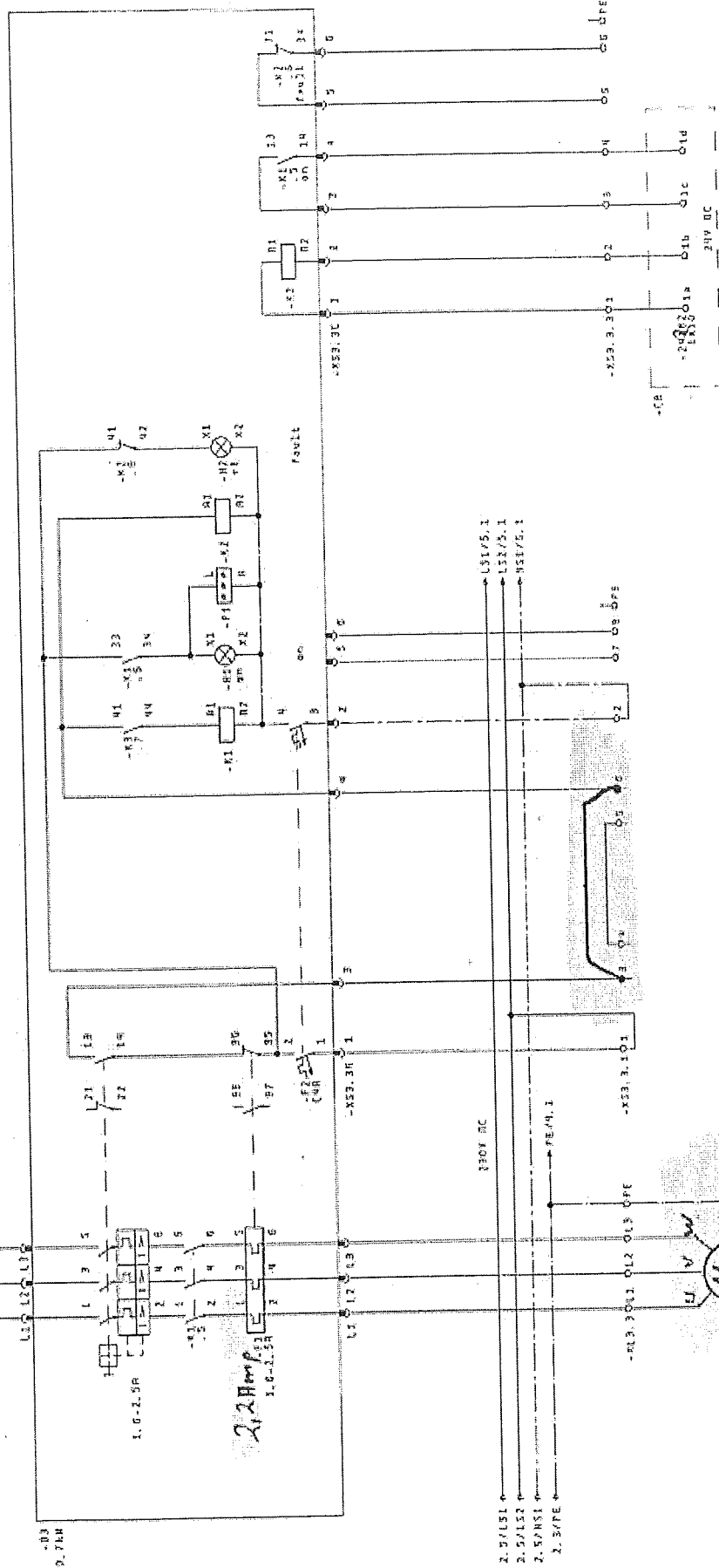
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2 -LYND-09-F1
3 -LYND-09-F1
4 -LYND-09-F1
5 -LYND-09-F1
6 -LYND-09-F1

1 -LYND-09-F1
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3 -LYND-09-F1
4 -LYND-09-F1
5 -LYND-09-F1
6 -LYND-09-F1

[illegible]

400V AC : 3/VE 50Hz : 500A / 120V

2.8/1.1
2.8/1.2
2.8/1.3
2.8/1.4
2.8/1.5
2.8/1.6
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2.8/1.8
2.8/1.9
2.8/1.10
2.8/1.11
2.8/1.12
2.8/1.13
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2.8/1.95
2.8/1.96
2.8/1.97
2.8/1.98
2.8/1.99
2.8/1.100



0.7 kW
2.2 Amp

control) carbinal
on indication

Oil demister
HCC Unit
Turbine 2

oil
liquide

Electrotechnique G&M

Electrotechnique G&M

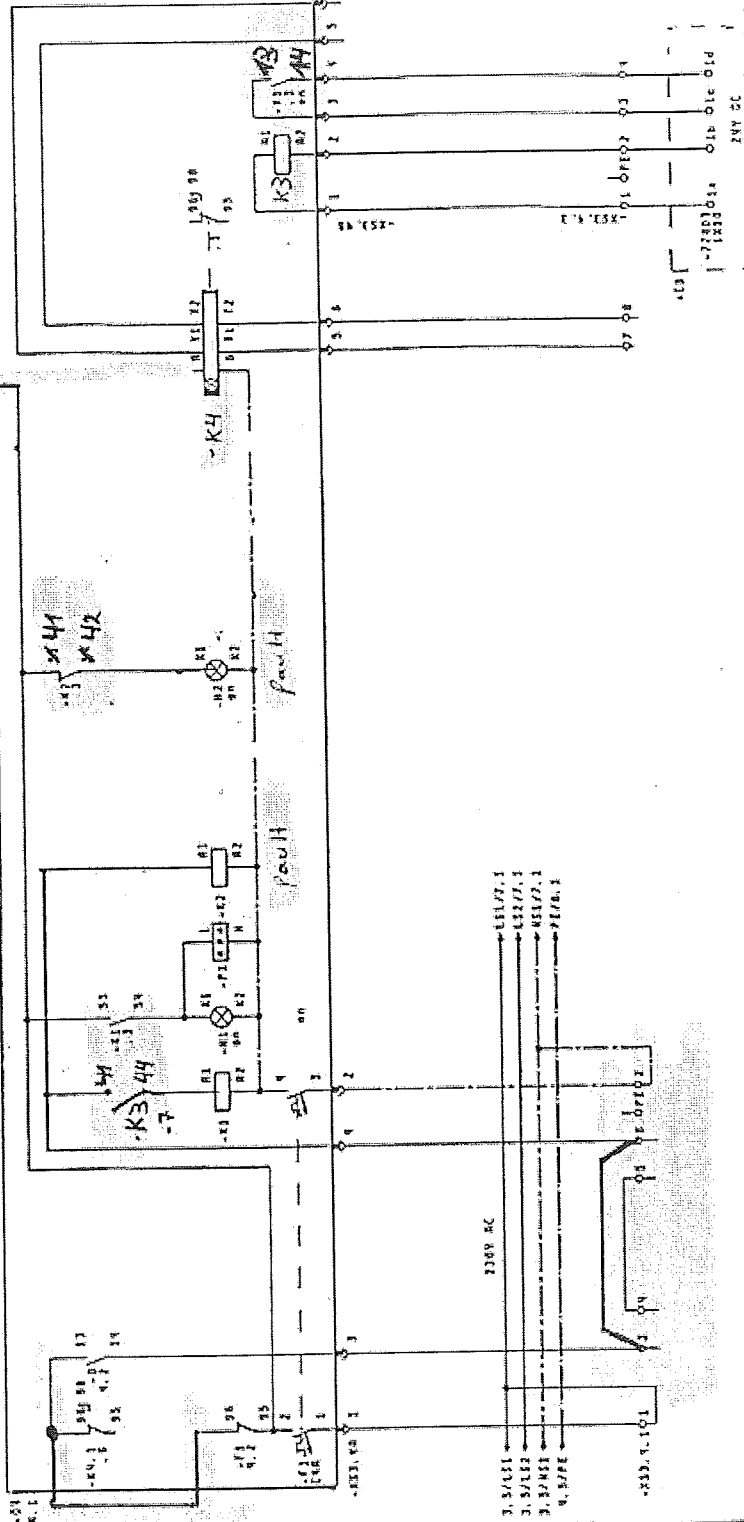
Electrotechnique G&M

Electrotechnique G&M

Electrotechnique G&M

Electrotechnique G&M

discon. KH/A



28.04.2006

Control terminal
on indication

1-2 4.1
3-4 4.2
5-6 4.3
7-8 4.4
9-10 4.5
11-12 4.6
13-14 4.7

Emergency stop

HCC Unit GAN 2
N77803

RIN
Liquide

ENERGIE
Energie-Technik GmbH
Energie-Technik GmbH

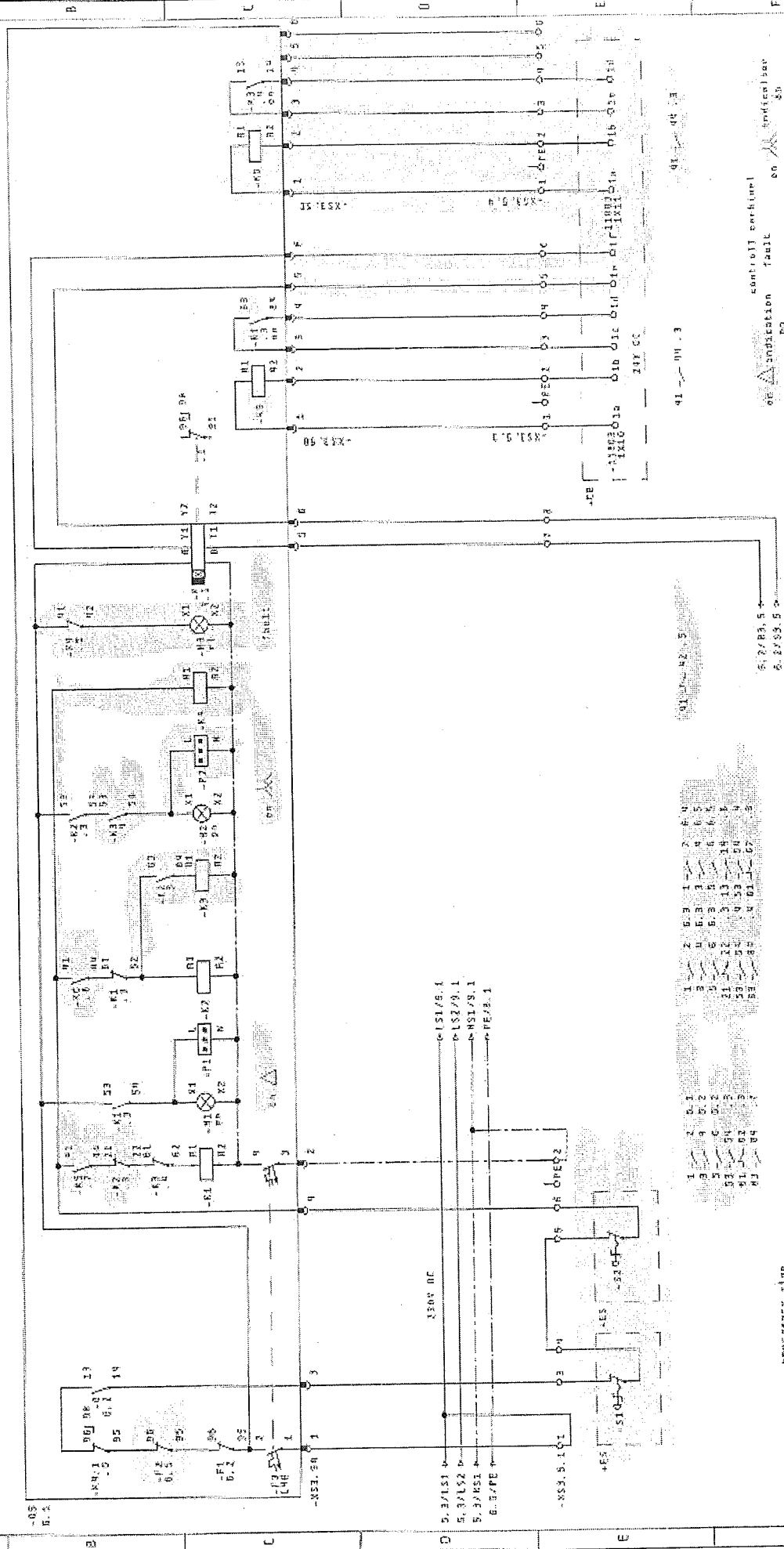
Low Voltage
Low Voltage

DATE 07.05.03
BY 01.05.03
REV 01.05.03

DATE 19.12.05
BY 19.12.05
REV 19.12.05

DATE 18.12.05-12.06.06
BY 18.12.05-12.06.06
REV 18.12.05-12.06.06

107

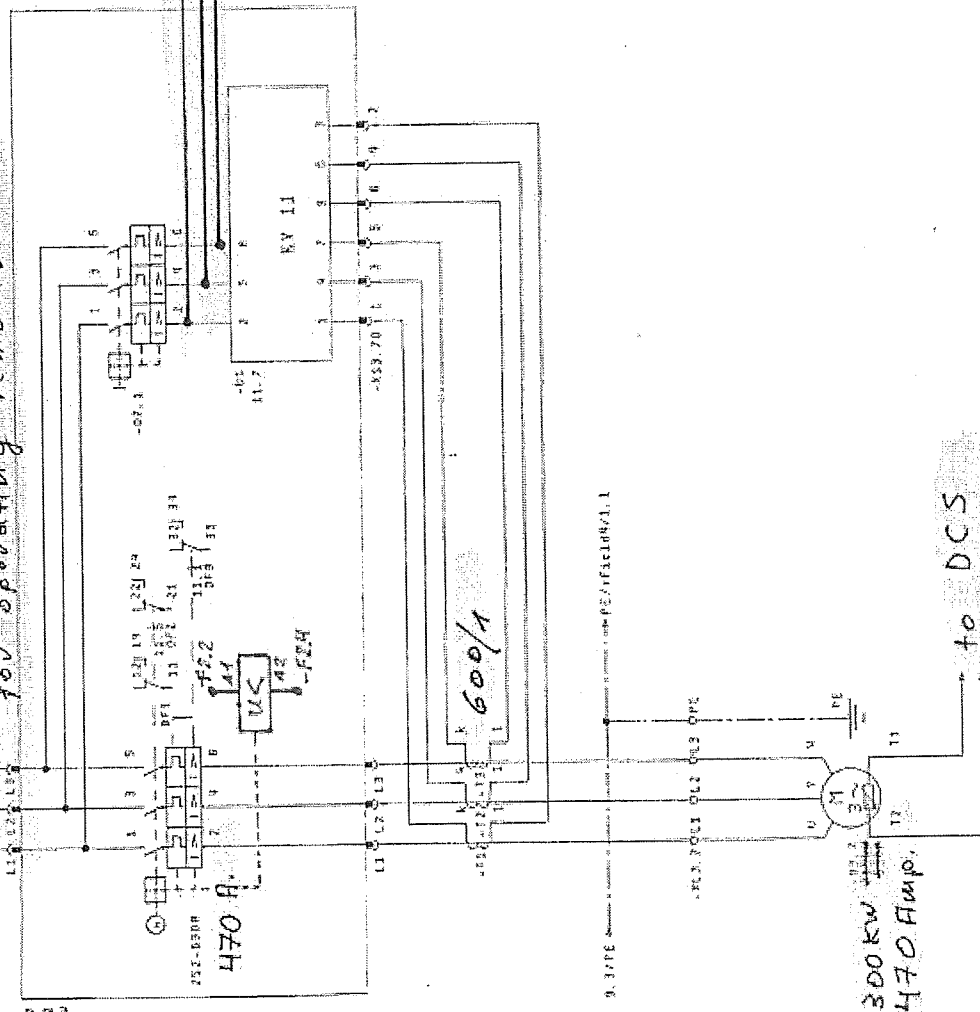
[illegible]

all out

[illegible]

[illegible]

Attention. The change over switch on the Broken must be in automatic position for operating remote.



EH44
F500-2
voltage relay
412

Bob + Jan

27.04.2006

[illegible]

1		2		3		4		5		6		7		8		9		10		11		12	
terminal block: 4Field3-XS3.20																							
notes and identification												notes and identification											
end												end											
class number												class number											
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99												99											
100												100											

terminal block: 4Field3-XS3.20

notes and identification

end

class number

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