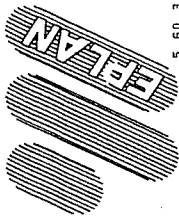


Created with



5.60.3

Manufacturer : AREVA  
Energietechnik GmbH  
Plant designation: LowVoltLightDistr

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

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

Number of pages : 99

[illegible]









1	2	3	4	5	6	7	8
<h3>Environmental conditions</h3> <p>Altitude : 2200 mm</p> <p>Maximum ambient air temperature over a period of 24 h : 35° C</p>				<h3>Mechanical data</h3> <p>Type of section used : Schneider Electric, Type: OKKEN</p> <p>Degree of protection : IP 31</p> <p>Form according IEC 439-1 : 3/4</p> <p>Degree of "withdrawability" (F.D.W) according IEC 439-1 : WW</p> <p>Colour : RAL 7032</p> <p>Opening angle : 90°</p> <p>Connexion access : Bottom</p> <p>Incoming Power cable entry : Bottom</p> <p>Outgoing Power cable entry : Bottom</p>			
<h3>Electrical data</h3> <p>- Power circuit</p> <p>Rated service voltage : 400 V</p> <p>Rated of main busbar H-SS : 1900 A</p> <p>Rated of main busbar V-SS : 630 A</p> <p>Rated frequency : 50 Hz</p> <p>Rated short-time current (kA rms/1s) : 50 kA</p> <p>Neutral system : TN-S</p> <p>- Auxiliary circuit</p> <p>Control voltage : 230 VAC</p>				<h3>General characterize</h3> <p>AIR Liquide</p> <p>AREVA Energietechnik GmbH</p> <p>Created with EPLAN 5.90</p>			
<p>Rev04 28.12.05</p> <p>State Date Name</p>				<p>Rev. 5</p> <p>Project-No. 1_169_05-1E</p> <p>Manufacturer-No. 3951/169-05</p>			

Table of characterize

+LVLD Low Voltage Light Distribution  
 +Field1....4 General building, field 1 to 4  
 +EX External

Table of characterize

AIR  
Liquide

AREVA  
Energetechnik GmbH  
Created with EPLAN 5.30

LVLD  
Kosice  
LowVolllightdistri

Act

Area

System

Date

Editor

BRE Checked

Name Norm

State

28.12.05

Rav04

Dist.No.

1-169-05-1E

Project-No.

3551/169-05

99 Pa. +

= LVLD

Zust. Pa. 6

Pa. 6

99 Pa. +

= LVLD

Pa. 6

10 Pa.

8

7

6

5

4

3

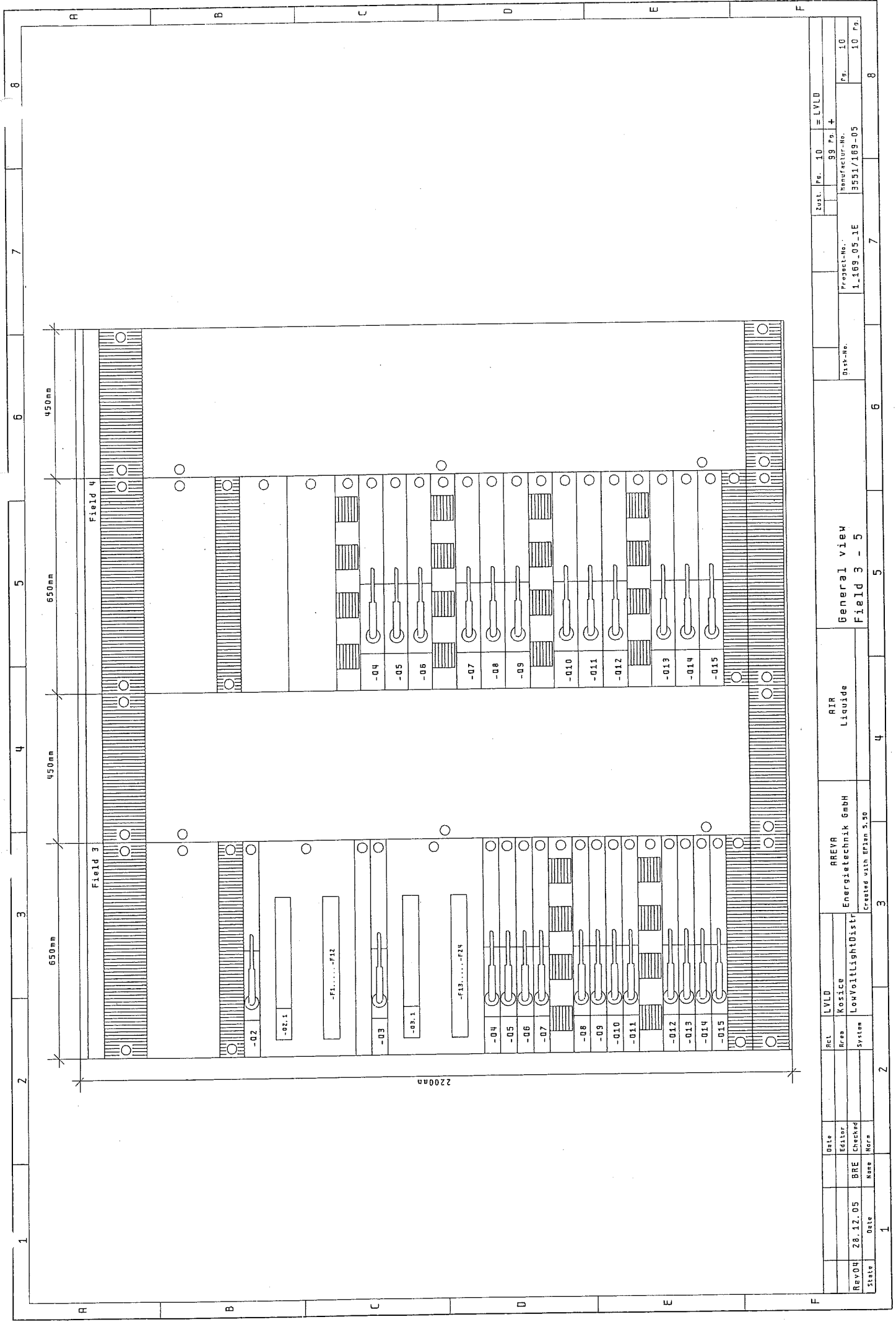
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1

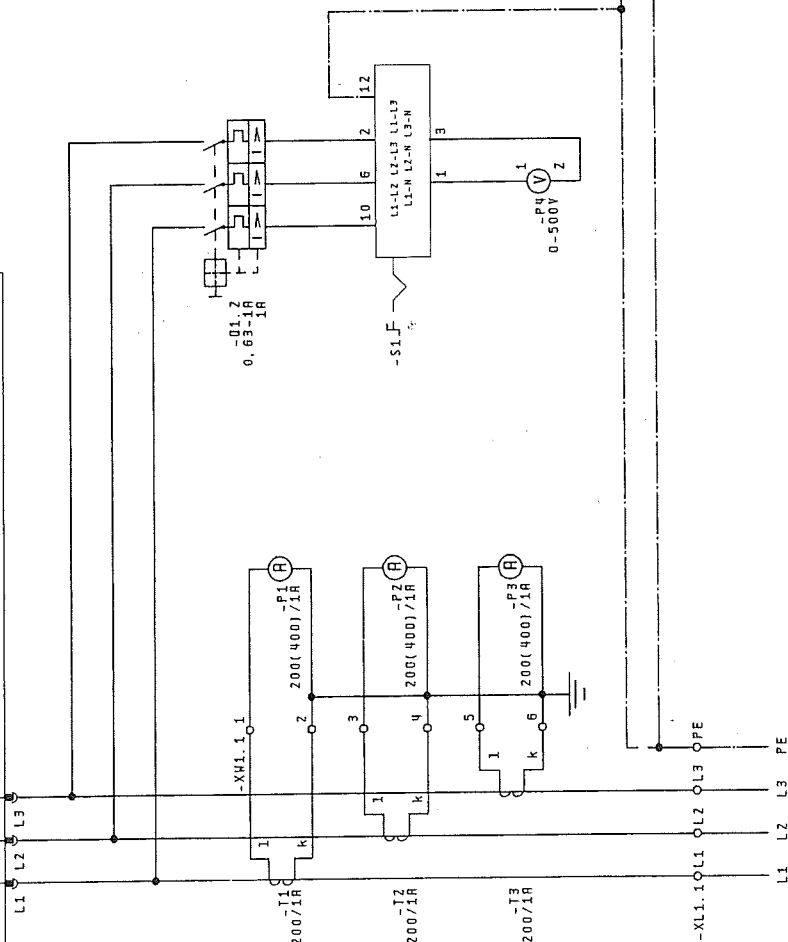








Date		28.12.05	Date		28.12.05	Date		28.12.05	Date		28.12.05	Date		28.12.05
Rev04		28.12.05	Rev04		28.12.05	Rev04		28.12.05	Rev04		28.12.05	Rev04		28.12.05
State		None	State		None	State		None	State		None	State		None
Date		28.12.05	Date		28.12.05	Date		28.12.05	Date		28.12.05	Date		28.12.05
Editor		BRE	Editor		BRE	Editor		BRE	Editor		BRE	Editor		BRE
Area		System	Area		System	Area		System	Area		System	Area		System
Act		Kosice	Act		Kosice	Act		Kosice	Act		Kosice	Act		Kosice
LVL		LowVollLightDist	LVL		LowVollLightDist	LVL		LowVollLightDist	LVL		LowVollLightDist	LVL		LowVollLightDist
AREVA		Energietechnik GmbH	AREVA		Energietechnik GmbH	AREVA		Energietechnik GmbH	AREVA		Energietechnik GmbH	AREVA		Energietechnik GmbH
AIR		Liquide	AIR		Liquide	AIR		Liquide	AIR		Liquide	AIR		Liquide
General view		Field 3 - 5	General view		Field 3 - 5	General view		Field 3 - 5	General view		Field 3 - 5	General view		Field 3 - 5
Dist-No.		1.169.05.1E	Dist-No.		1.169.05.1E	Dist-No.		1.169.05.1E	Dist-No.		1.169.05.1E	Dist-No.		1.169.05.1E
Product-No.		3551/169-05	Product-No.		3551/169-05	Product-No.		3551/169-05	Product-No.		3551/169-05	Product-No.		3551/169-05
Manufacturer-No.		3551/169-05	Manufacturer-No.		3551/169-05	Manufacturer-No.		3551/169-05	Manufacturer-No.		3551/169-05	Manufacturer-No.		3551/169-05
Zust.		Pr. 10	Zust.		Pr. 10	Zust.		Pr. 10	Zust.		Pr. 10	Zust.		Pr. 10
= LVL		+	= LVL		+	= LVL		+	= LVL		+	= LVL		+



Main supply line 1  
Supply voltage measurement

Current measurement

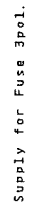
Main supply from:

	Date		Act	LVL D	AIREVA Energetechnik GmbH	AIR Liquide	Main supply line 1 and measurement	Zust.	Pg. 11	= LVL D
			Mess	KOSICH					99 Pg.	+ Field I
Rev04	28.12.05	BRE Checked	System	LowVoltageDistr			Blisk-No. Project-No. Manufacturer-No.			Pg. 1
State	Date	Horn			Created with Erlan 5.30		1-169.05.1E 3551/169-05			19 Pg.
7	1		3	4	5	6	7			8



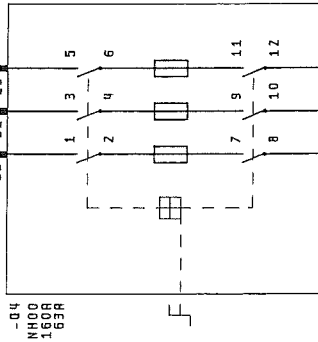






1	2	3	4	5	6	7	8
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4

-XL1.40L1 0L7 0L3

7.11.1.413 →

[illegible]



1		2		3		4		5		6		7		8	
<div> <div>400V RC : 3/PE    50Hz : 50kA / 1sek.</div> <div> <div>6.8/L1 → L1/9.1</div> <div>6.8/L2 → L2/9.1</div> <div>6.8/L3 → L3/9.1</div> </div> <div> <div>7.8/N → N/9.1</div> <div>7.8/PE → PE/9.1</div> </div> </div>															

Rev04 State	28.12.05	BRE	Checked	Date	Act	LVLD Kosice LowVollLightDistr	AREVA Energietechnik GmbH Created with EPLAN 5.50	AIR Liquide	Reserve	Disk-No. 1_169_05_1E	Project-No. 1_169_05_1E	Manufacturer-No. 3951/169-05	Zust. Fe. 18	= LVLD 99 Pa. + Field1	Fe. 8 19 Pa.
		New	Norm												

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

400V AC : 3/PE      50Hz : 50kA / Isek.

8.8/L1 → L1/10.1

8.8/L2 → L2/10.1

8.8/L3 → L3/10.1

8.8/N → N/10.1

8.8/PE → PE/10.1

Rev04 State	Date 26.12.05	Editor BRE	Checked Norm	Act Area	LVL D Kosice LowVoltageDistri	AREVA Energietechnik GmbH <small>Created with ePlan 5.50</small>	AIR Liquide	Reserve	Disk-No. 1-169_05_1E	Project-No. 3551/169-05	Zust. Pg. 19	= LVL D 99 Pg. + Field 1	Pg. 9
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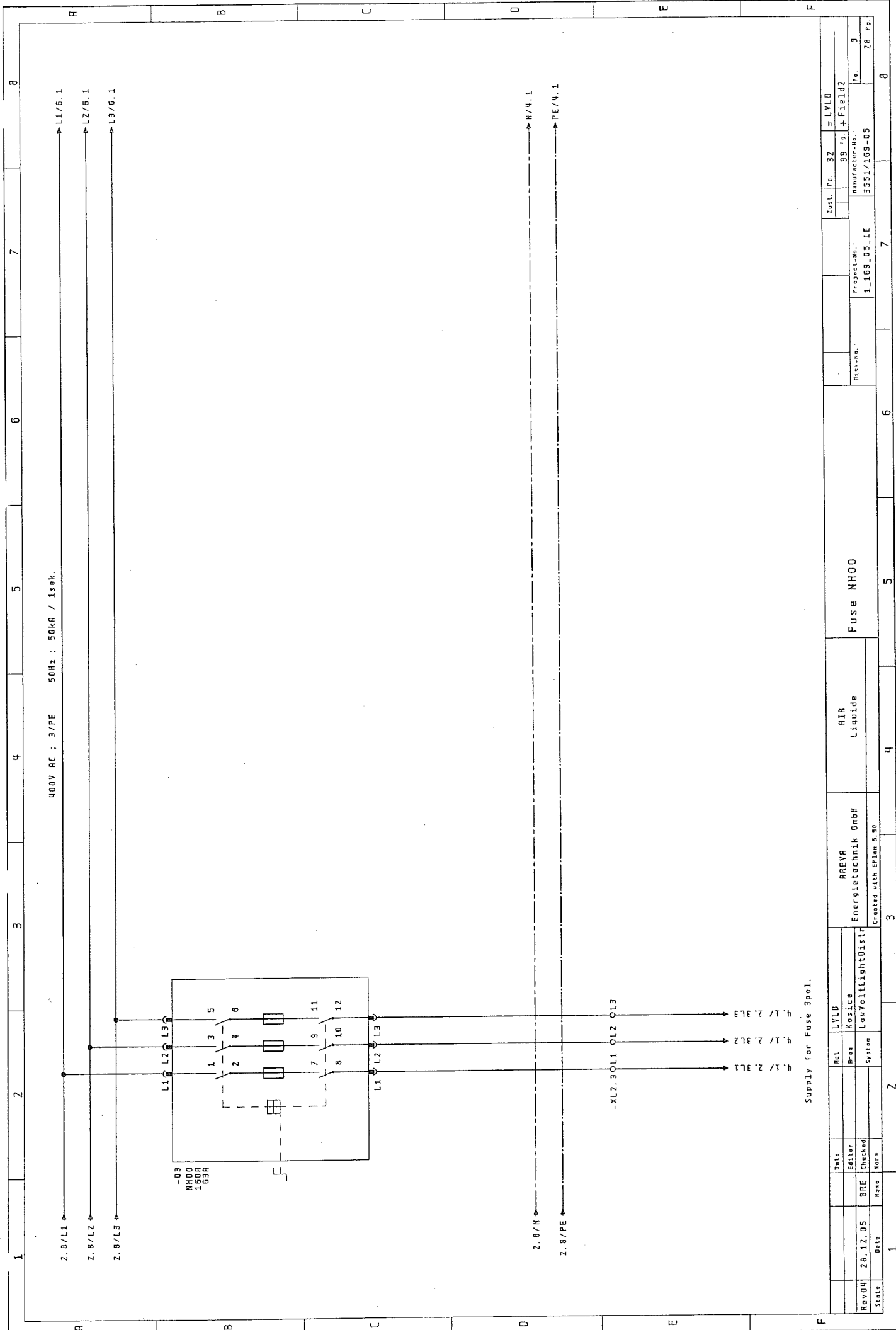
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[illegible]

[illegible]

1	2	3	4	5	6	7	8
400V RC : 3/PE 50Hz : 50kR / 1sek.							
1.8/L1 → L1/3.1							
1.8/L2 → L2/3.1							
1.8/L3 → L3/3.1							
1.8/N → N/3.1							
1.8/PE → PE/3.1							
Reserve NH00							
AREVA Energietechnik GmbH							
AIR Liquide							
Created with EPLAN 5.90							
LVL0							
Kosice							
Luvoltlightdist							
Rev04 28.12.05 BRE Checked							
Date Name Norm							
1 2 3 4 5 6 7 8							
Zust. Pa. 31 = LVL0							
99 Pa. + Field2							
Project-No. 1_169_05_1E							
Manufacturer-No. 3551/169-05							
Pa. 2 28 Pa.							



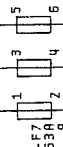
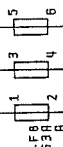
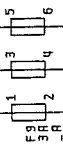


400V RC : 3/N, PE

4. 8 / 2. 3L1 2. 3L1

4. 8 / 2. 3L2 2. 3L2

4. 8 / 2. 3L3 2. 3L3



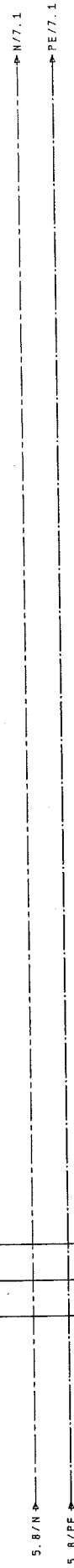
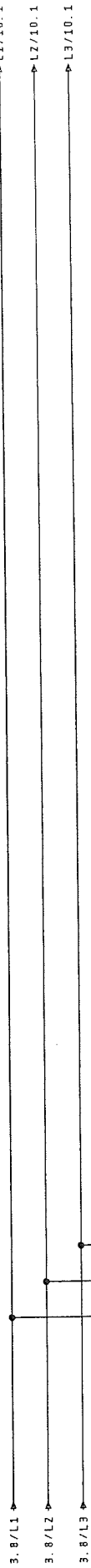
4. 8 / N N PE

4. 8 / PE PE PE

-XS2.3019 020 021 0N 0PE

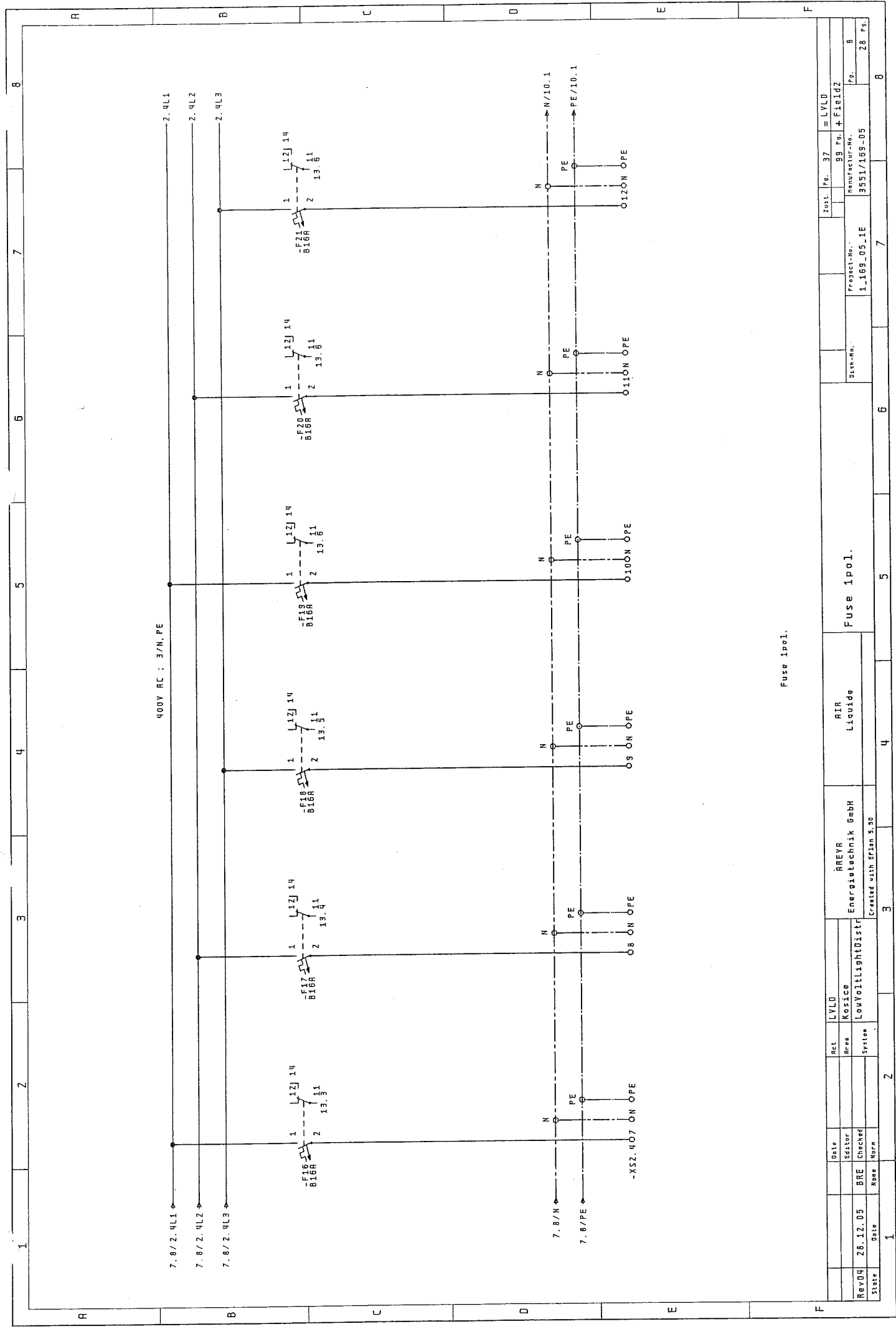
Fuse 3pol.

Date		Act		LVL		AREVA		AIR		Fuse 3pol.		Total No.		34		= LVL	
Editor		Kosice		Energietechnik GmbH		Liquide		Liquide		Fuse 3pol.		99		+ Field		5	
Checked		LowVoltLightDistr		Created with EPLAN 5.30		Project-No.		1-169-05-1E		Manufacturer-No.		3551/169-05		28		No.	
Rev04		28.12.05		BRE		Date		Name		Horn		1		2		8	

[illegible]

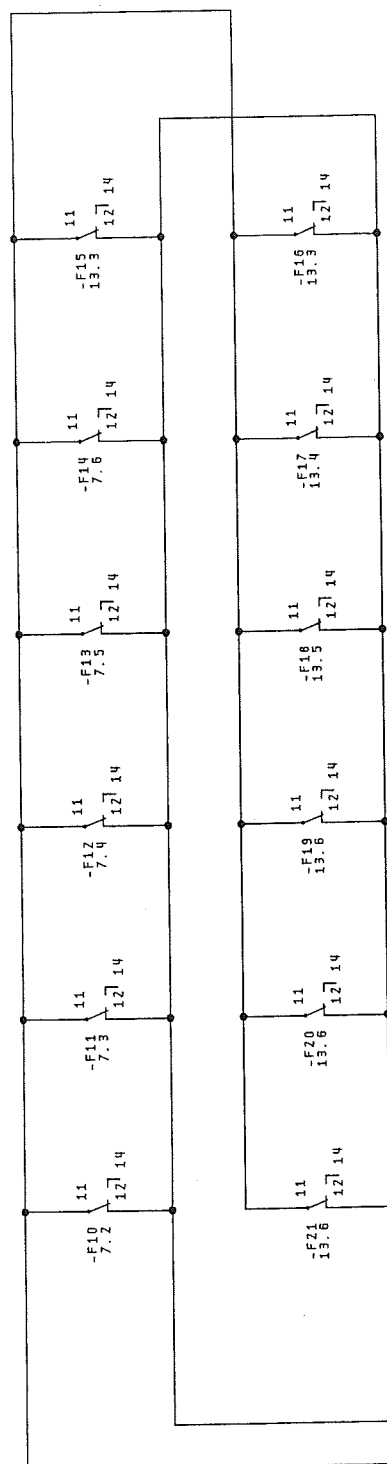






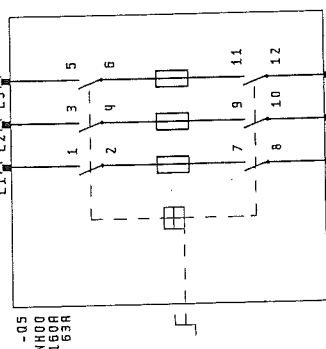
Fuse 1pol.

Date		Act		LYLO		BREVIA		AIR		Fuse 1pol.		Zust.		Per.		= LVL0		8	
Rev04		28.12.05		BRE		Kosice		Energietechnik GmbH		AIR		Dist.-No.		1.169-05.1E		99 p.p. + Field2		8	
State		Date		Name		Checked		System		Created with EPLAN 5.30		Product-No.		3551/159-05		Manufacturer-No.		28 p.p.	
1		2		3		4		5		6		7		8		9		10	



Announcement  
Fuse -F10.....-F21

[illegible]

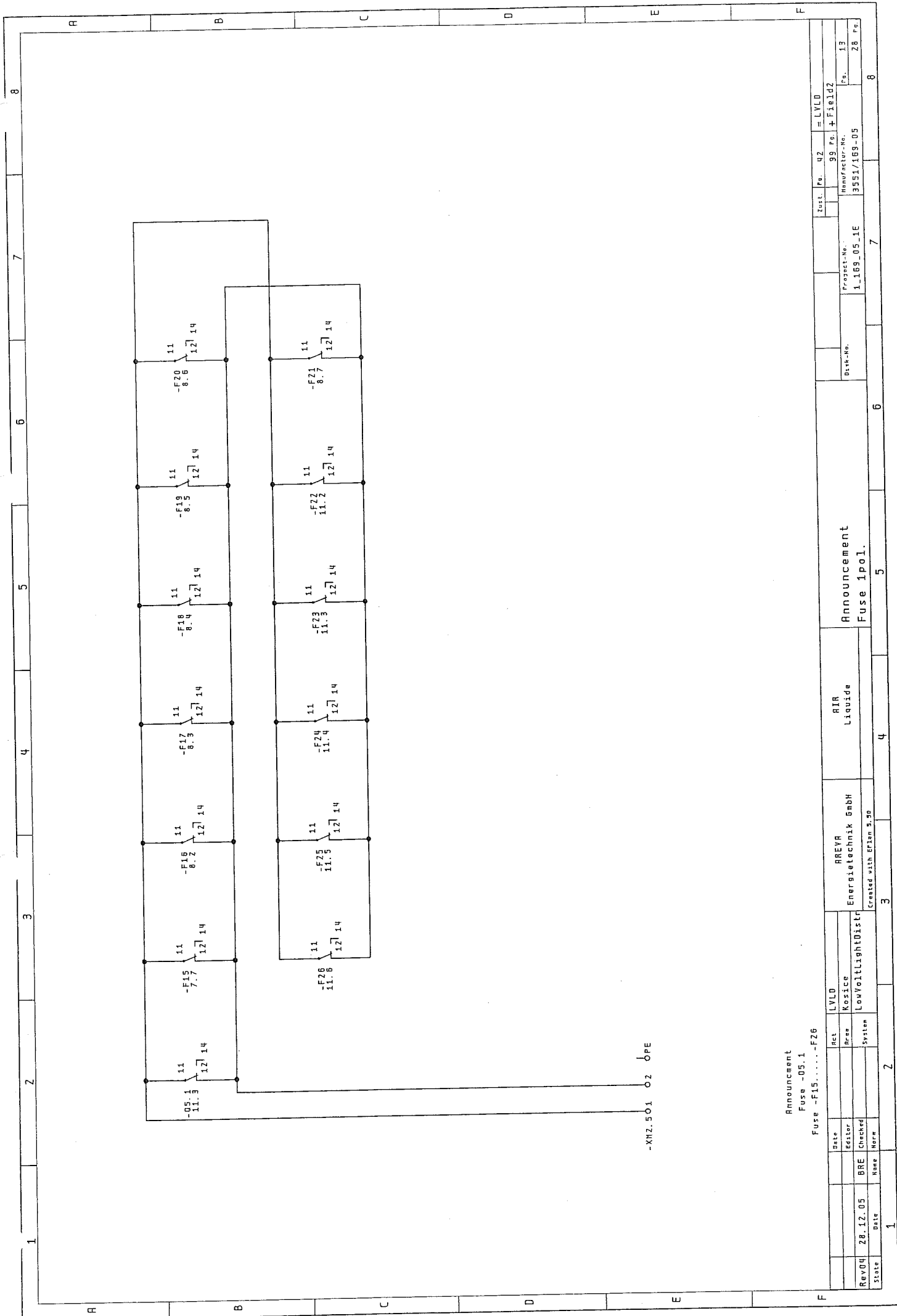


Supply for Fuse 1pol.

[illegible]







Announcement  
Fuse -05.1  
Fuse -F15.....-F26

Date		Act	LVL0	Zust.		Pg.		= LVL0	
Editor		Area	Kosice	Pg.		99		+ Field2	
Rev04	28.12.05	BRE	Checked	System		Project-No.		1.169.05.1E	
State	Date	Name	Norm	Block-No.		3551/169-05		Pg.	
								13	
								28	

Announcement  
Fuse 1pol.

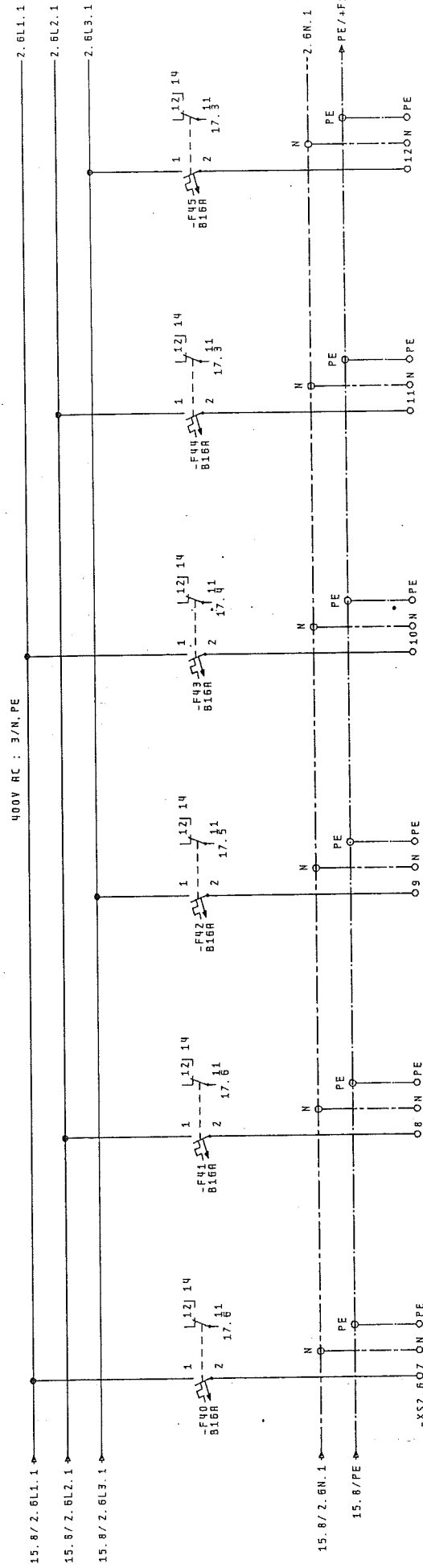
AIR  
Liquide

AREVA  
Energie-technik GmbH  
Created with EPLAN 3.50



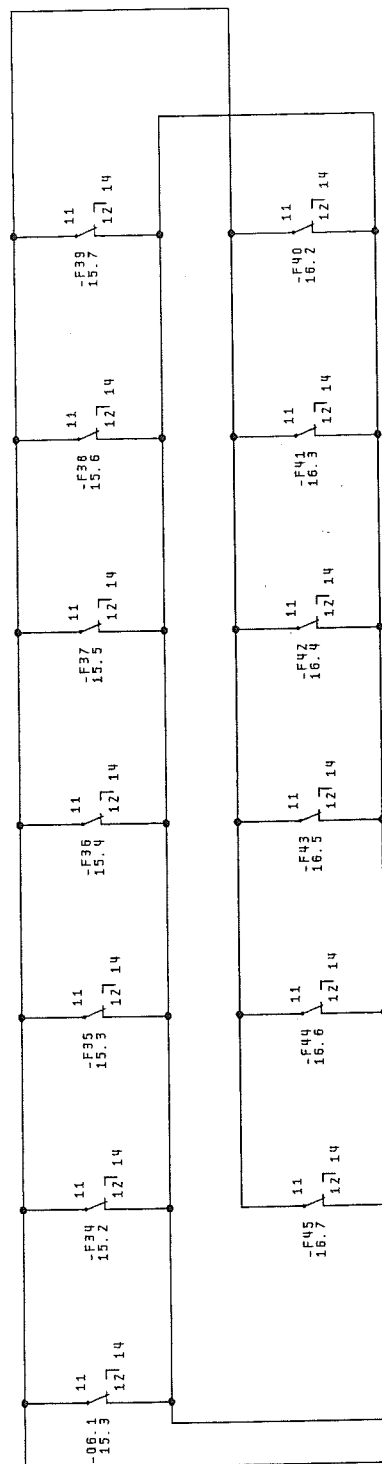






Fuse 1pol.

		Date		Act	LVLID		AIR	Fuse 1pol.					Zust. Ps. 45 = LVLD	
		Editor		Brea	Kosice		Liquide						99 Ps.	+ Field2
Rev04	28.12.05	BRE	Checked		LowVolltlightDiste		Energietechnik GmbH			Disk-No.	Project-No.	Manufacturer-Nr.	Pg.	16
Status	Date	Name	Horn		System		Created with EPLAN 5.50				1.169-05_1E	3951/169-05	28 Pg.	
	1			2		3	4	5	6	7			8	



Announcement  
Fuse -06.1  
Fuse -F27....-F38

[illegible]

[illegible]

[illegible]

1		2		3		4		5		6		7		8	
terminalblock: +Field2-XS2.4															
Date		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
28.12.05	BRE	28.12.05	BRE	28.12.05	BRE	28.12.05	BRE	28.12.05	BRE	28.12.05	BRE	28.12.05	BRE	28.12.05	BRE
State	Date	State	Date	State	Date	State	Date	State	Date	State	Date	State	Date	State	Date
Date		Date		Date		Date		Date		Date		Date		Date	
Editor		Editor		Editor		Editor		Editor		Editor		Editor		Editor	
Checked		Checked		Checked		Checked		Checked		Checked		Checked		Checked	
Norm		Norm		Norm		Norm		Norm		Norm		Norm		Norm	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
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Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev		Rev		Rev		Rev		Rev		Rev		Rev	
Date		Date		Date		Date		Date		Date		Date		Date	
Rev		Rev													

1		2		3		4		5		6		7		8	
terminalblock: +Field2-XS2.4															
end		notes and identification		Link		Clampnumber		end		notes and identification		cabletyp		cabletyp	
+LVLD+EX-S2.2								PE		+LVLD-PE				1	
+LVLD+EX-S2.2								19		+LVLD-K1				R1	
+LVLD+EX-S2.2								14		+LVLD-K1					
+LVLD+EX-S2.2								PE							
+LVLD+EX-S2.2								15		+LVLD-K2				1	
+LVLD+EX-S2.2								16		+LVLD-K2				R1	
+LVLD+EX-S2.2								PE							
+LVLD+EX-S2.2								17		+LVLD-K3				1	
+LVLD+EX-S2.2								18		+LVLD-K3				R1	
+LVLD+EX-S2.2								PE							
+LVLD+EX-S2.2								19		+LVLD-K4				1	
+LVLD+EX-S2.2								20		+LVLD-K4				R1	
+LVLD+EX-S2.2								PE							



[illegible]



[illegible]

[illegible]

terminalblock: +Field2-XS2.6

end  
notes and  
identification

Link  
Clappnummer

notes and  
identification

1	=LVLD-F34	2
N	=LVLD-N	
PE	=LVLD-PE	
2	=LVLD-F35	2
N	=LVLD-N	
PE	=LVLD-PE	
3	=LVLD-F36	2
N	=LVLD-N	
PE	=LVLD-PE	
4	=LVLD-F37	2
N	=LVLD-N	
PE	=LVLD-PE	
5	=LVLD-F38	2
N	=LVLD-N	
PE	=LVLD-PE	
6	=LVLD-F39	2
N	=LVLD-N	
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PE	=LVLD-PE	
8	=LVLD-F41	2
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PE	=LVLD-PE	
9	=LVLD-F42	2
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PE	=LVLD-PE	
10	=LVLD-F43	2
N	=LVLD-N	
PE	=LVLD-PE	
11	=LVLD-F44	2
N	=LVLD-N	
PE	=LVLD-PE	
12	=LVLD-F45	2
N	=LVLD-N	

Rev04	Date	28.12.05	BRE	Checked	Name	Horn
State	Date					

Act	LVLD	Kosice
Area		LosVolllightDistr
System		

AREVA  
Energietechnik GmbH  
Created with EPLAN 5.30

AIR  
Liquide

Clamp-plan  
+Field2-XS2.6

Dist-No.

Project-No.  
1.169\_05\_1E

Manufacturer-No.  
9551/169-05

Just. Fe. 55 = LVLD  
99 Fe. + Field2

Fe. 26  
Fe. 28

3

4

5

6

7

8

[illegible]

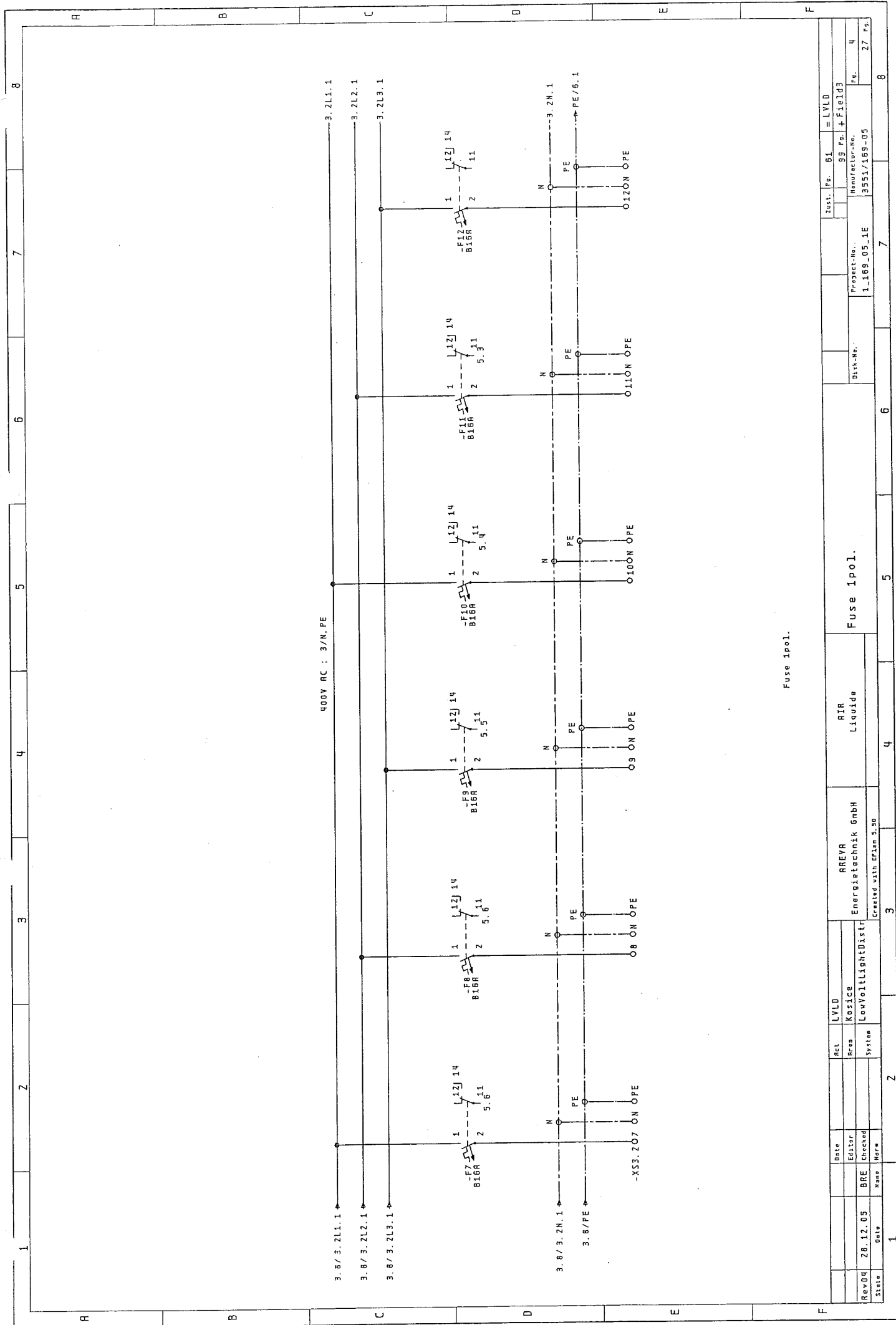
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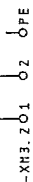
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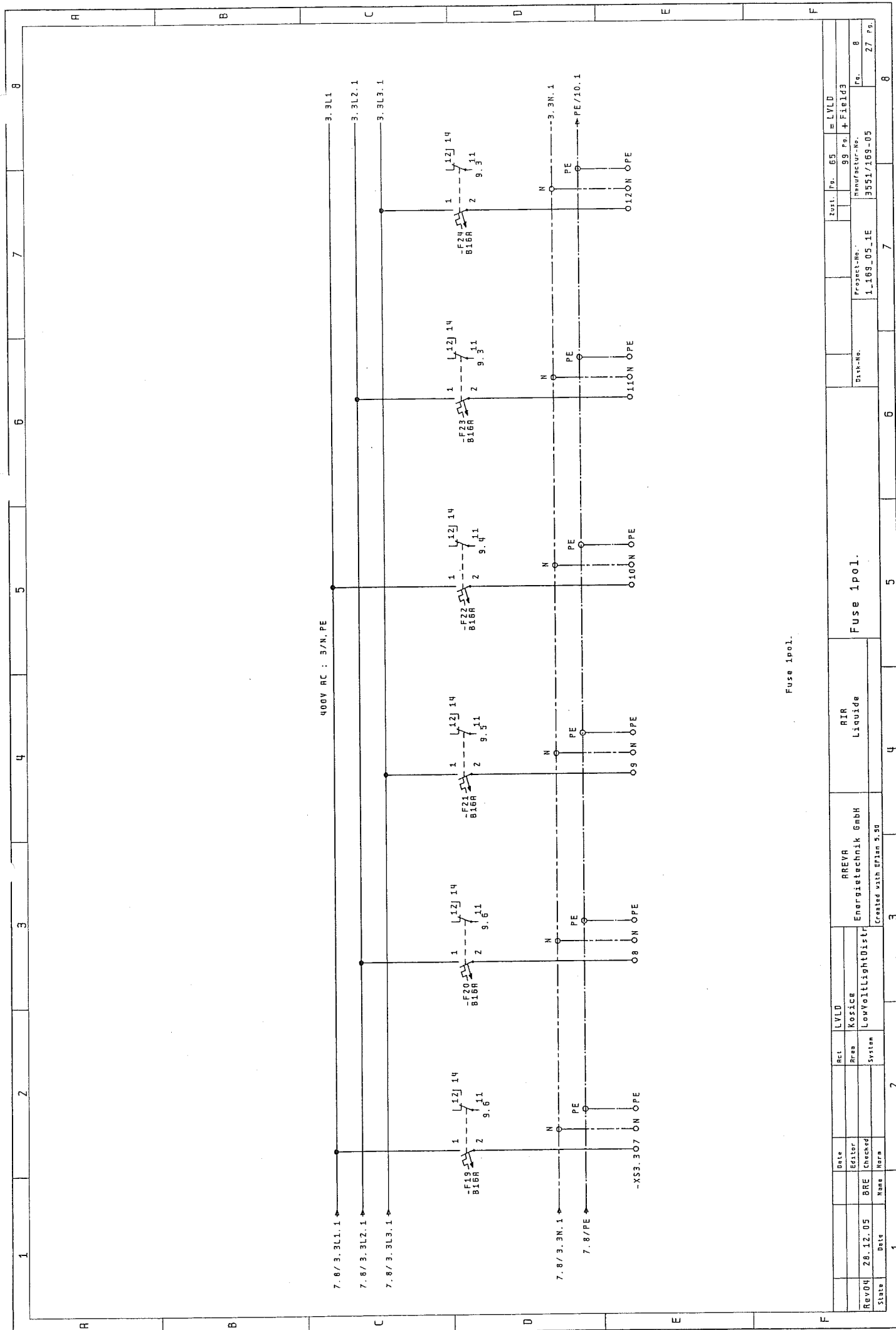


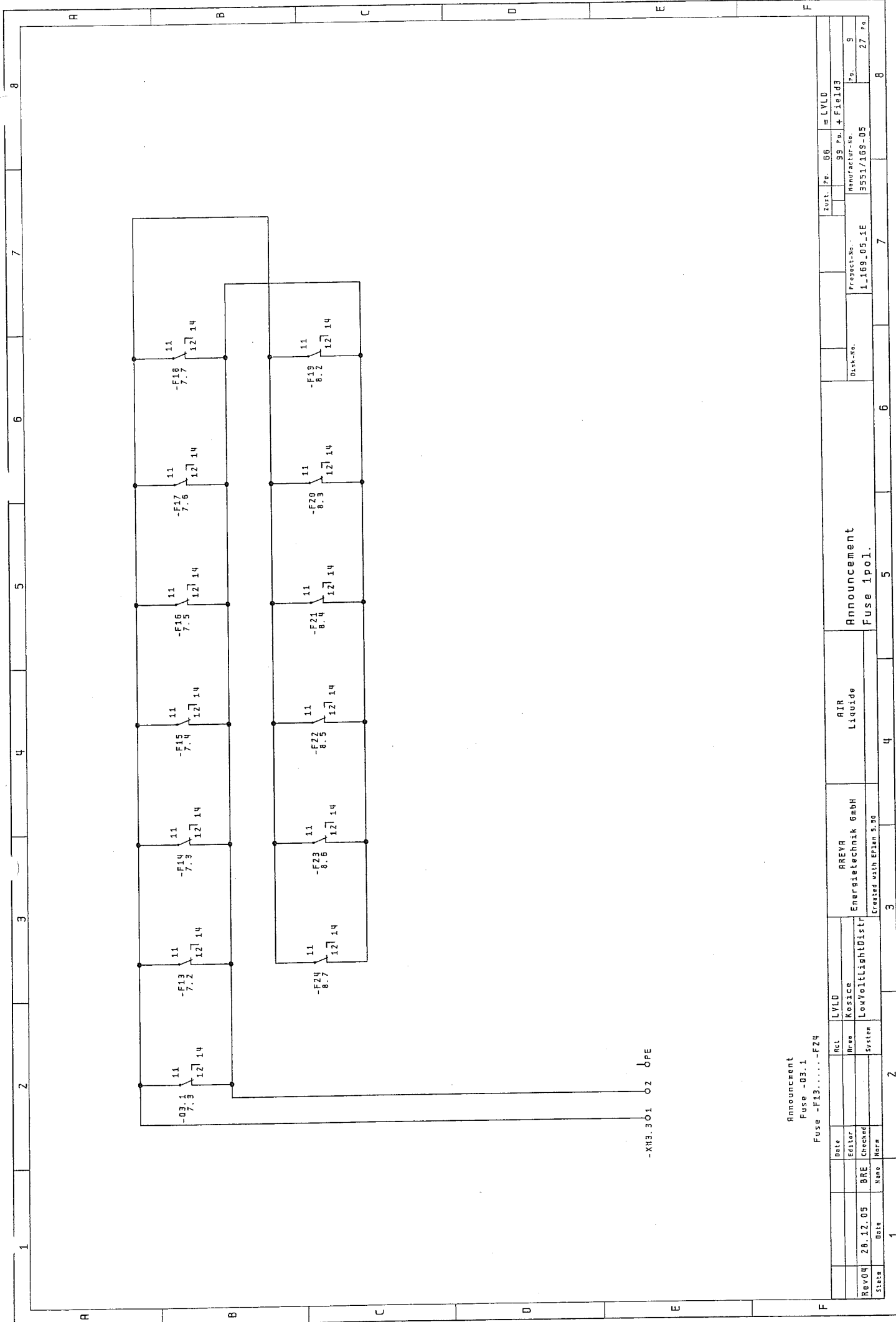
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Fuse -F1....-F12

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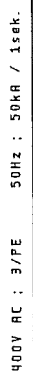
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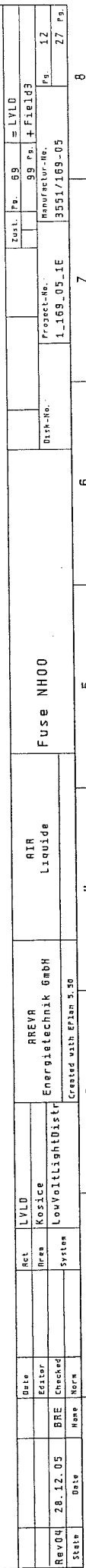
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Fuse -F13.....-F24

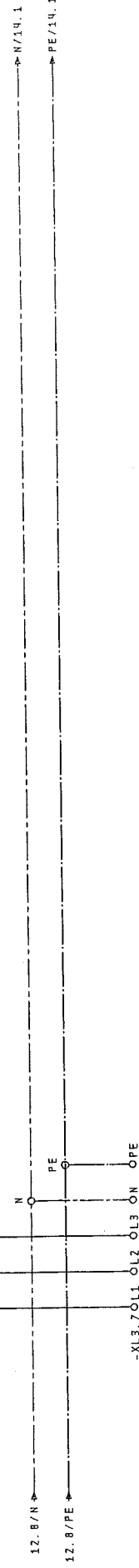
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State	Date	Name	Norm	System	Area	Act	LVLID	AREVA Energietechnik GmbH Created with EPLAN 5.30	AIR Liquide	Announcement Fuse 1pol.	Dist. No.	99 Pa. + Field3
										Project-No.	1.169_05_1E	3551/169-05
										Manufacturer-No.	3551/169-05	27 Pa.
										Dist. No.	99 Pa. + Field3	27 Pa.



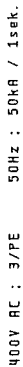
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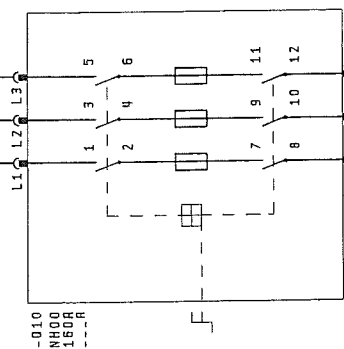
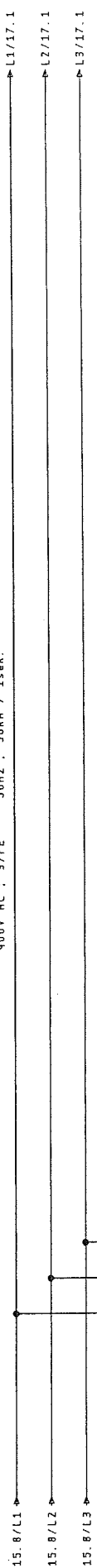
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[illegible]



Fuse NH00

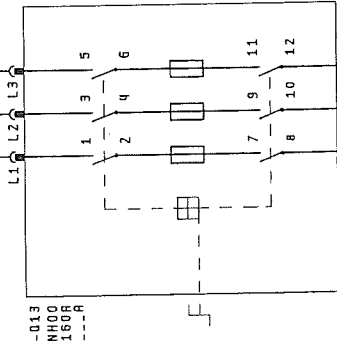
[illegible]

[illegible]



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

18.8/L1  
18.8/L2  
18.8/L3



18.8/N  
18.8/PE

N  
PE  
OPE

-XL3.130L1 0L2 0L3 ON

Rev	Date	Editor	Checked	Norm	System	LowVoltageDistri
Rev04	28.12.05	BRE	Checked			
State						

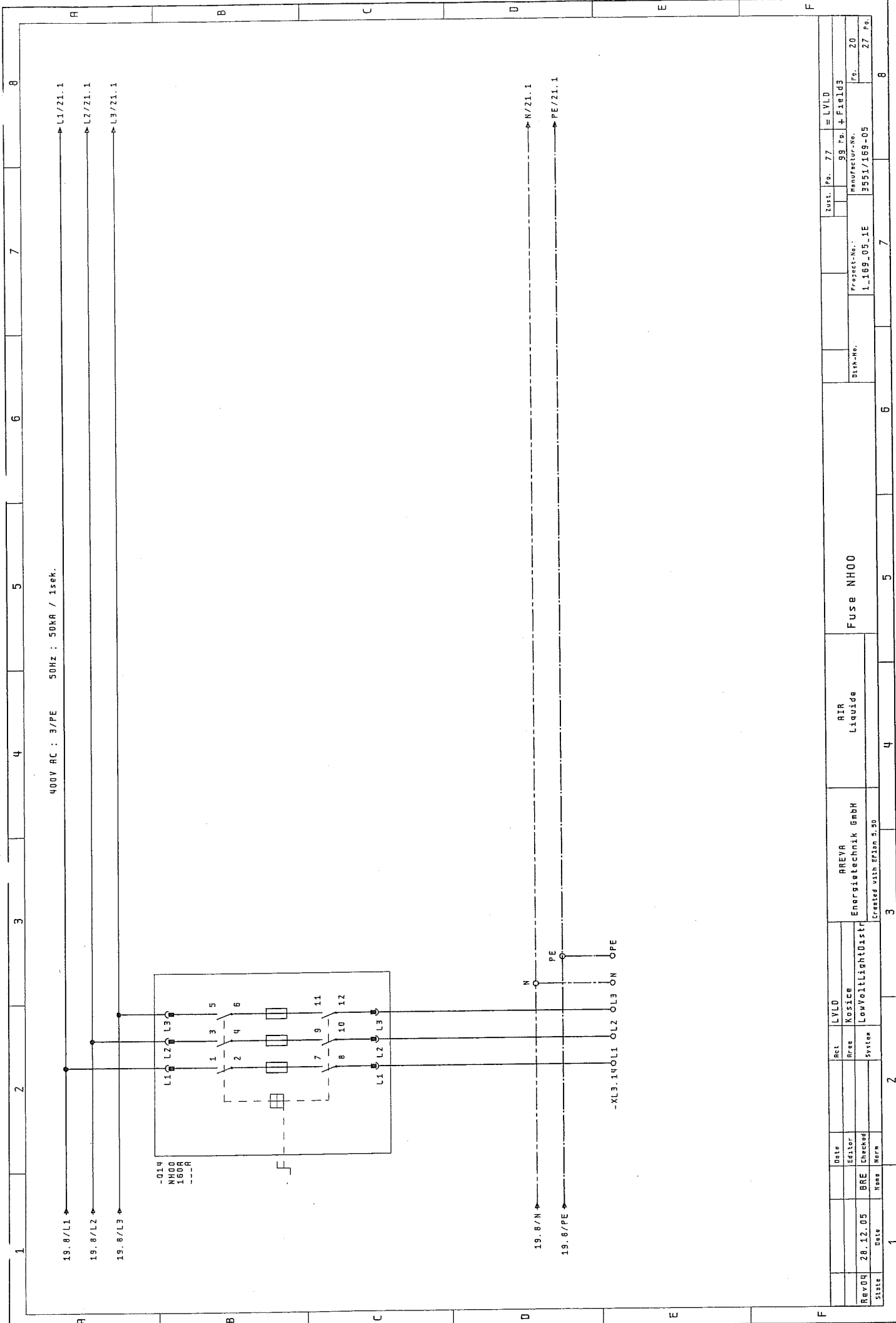
AREVA  
Energietechnik GmbH  
Created with EPLAN 5.50

RIR  
Liquide

Fuse NH00

Dist.No.	Project-No.	Manufacturer-No.	99 ps. + Field3	Zust.	Ps.	76	= LVLD
1_169_05_1E	3551/169-05	19					
27 ps.							





1		2		3		4		5		6		7		8	
Rev04	28.12.05	BRE	Checked												
State	Date	Name	Herrn												
		Act		LVL0		AREVA		AIR		Fuse NH00		Zust.		= LVL0	
		Area		Kosice		Energietechnik GmbH		Liquida				99 Fe.		+ Field3	
		System		LowVoltageDist		Created with EPLAN 5.90						Project-No.		3551/169-05	
												Dist-No.		1_169_05_1E	
												99 Fe.		20	
												27 Fe.		27 Fe.	



[illegible]

[illegible]

[illegible]

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terminalblock: +Field3-XS3.3															
end		end		end		end		end		end		end		end	
notes and identification		notes and identification		notes and identification		notes and identification		notes and identification		notes and identification		notes and identification		notes and identification	
Link		Link		Link		Link		Link		Link		Link		Link	
Clappnumber		Clappnumber		Clappnumber		Clappnumber		Clappnumber		Clappnumber		Clappnumber		Clappnumber	
1		1		1		1		1		1		1		1	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
2		2		2		2		2		2		2		2	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
3		3		3		3		3		3		3		3	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
4		4		4		4		4		4		4		4	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
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N		N		N		N		N		N		N		N	
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N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
7		7		7		7		7		7		7		7	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
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N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
11		11		11		11		11		11		11		11	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
12		12		12		12		12		12		12		12	
N		N		N		N		N		N		N		N	
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13		13		13		13		13		13		13		13	
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15		15		15		15		15		15		15		15	
N		N		N		N		N		N		N		N	
PE		PE		PE		PE		PE		PE		PE		PE	
16		16		16		16		16		16		16		16	
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PE		PE		PE</											

[illegible]

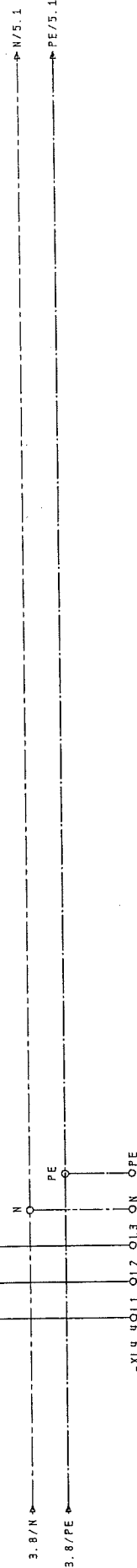
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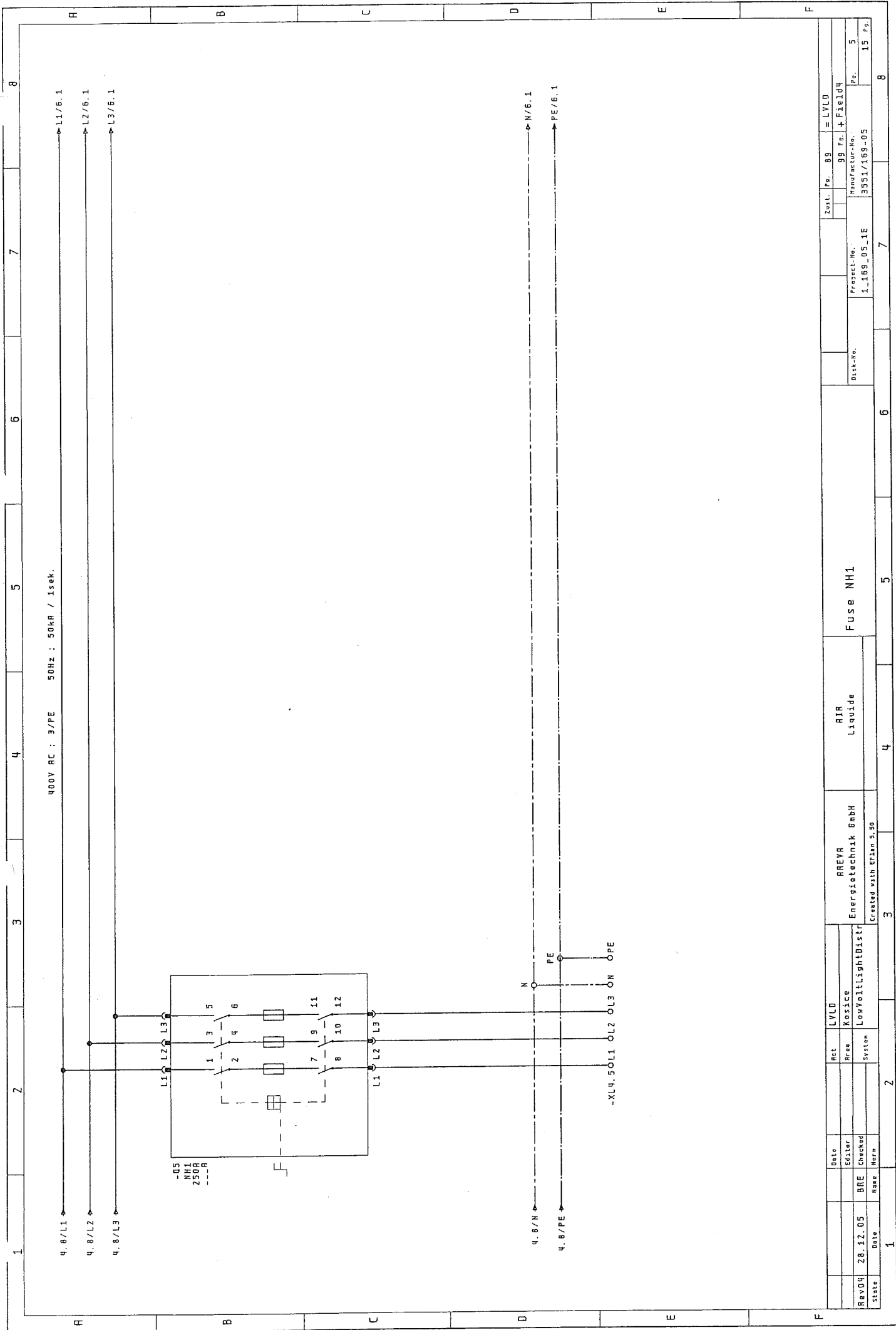


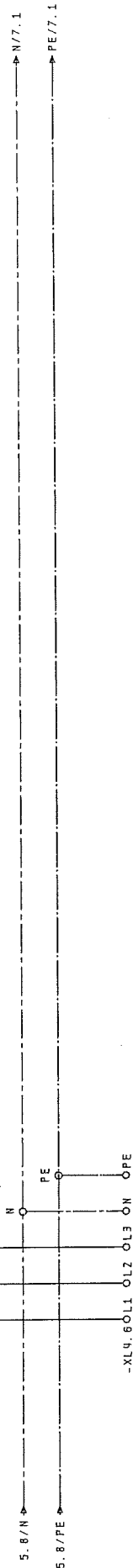
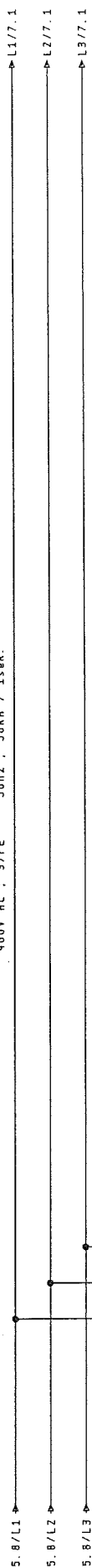
1		2		3		4		5		6		7		8																																																																																	
<p>400V RC : 3/PE    50Hz : 50kV / 1sek.</p> <p>+Field3/21.8/L1 → L1/2.1</p> <p>+Field3/21.8/L2 → L2/2.1</p> <p>+Field3/21.8/L3 → L3/2.1</p>																																																																																															
<p>+Field3/21.8/N → N/2.1</p> <p>+Field3/21.8/PE → PE/2.1</p>																																																																																															
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Rev04		28.12.05		BRE		Checked		Date		Editor		Rect		LVLD																																																																																	
State		Date		Name		Norm		System		Area		Kosice		LowVoltageDist																																																																																	
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AREVA Energietechnik GmbH				AIR Liquide				Reserve				Zust. Ps. 85 = LVLO																																																																																			
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[illegible]

[illegible]

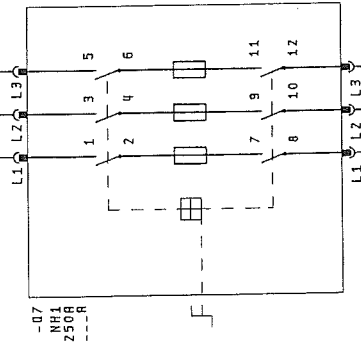
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[illegible]

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

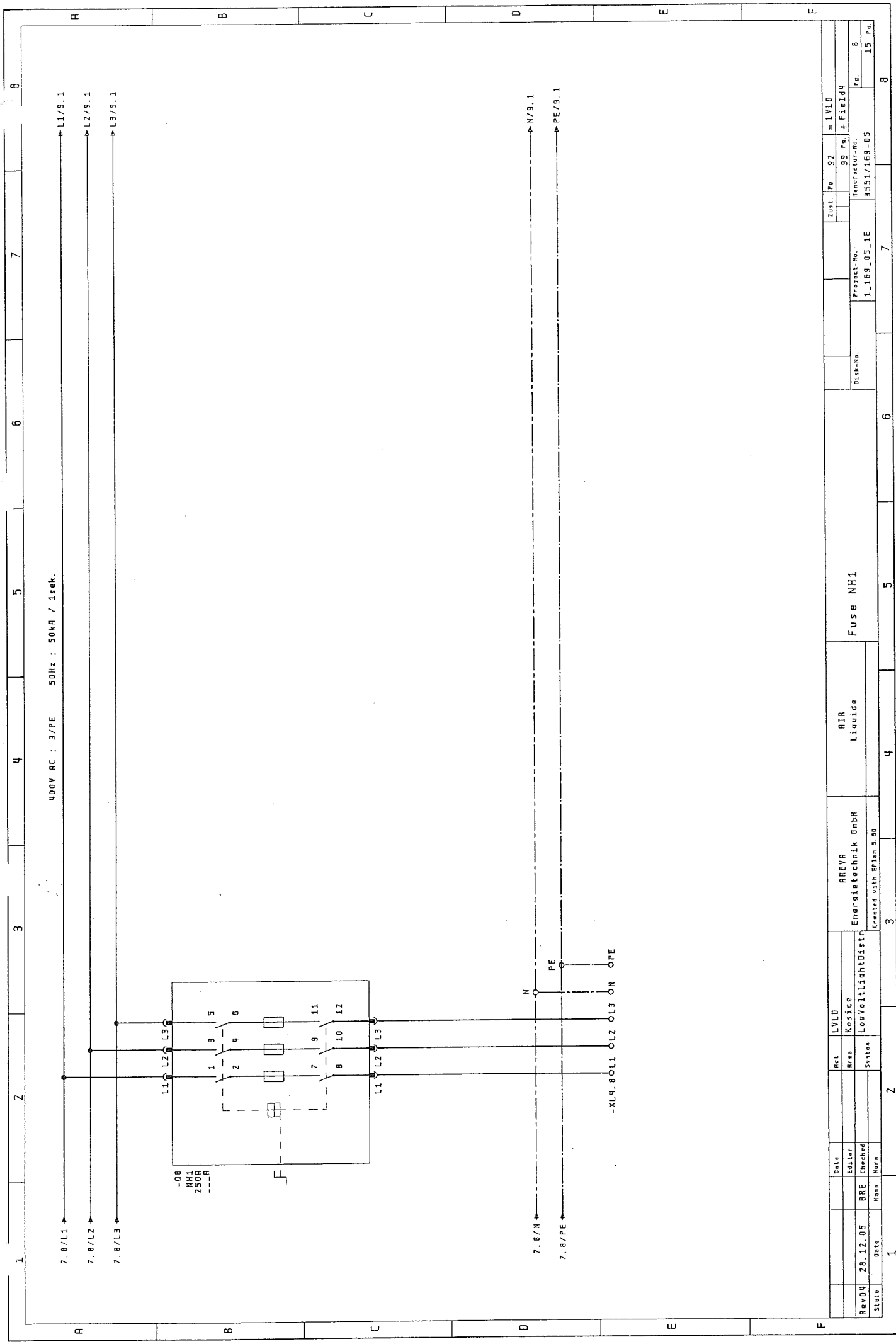
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6.8/L2 → L2/8.1  
6.8/L3 → L3/8.1



6.8/N → N/8.1  
6.8/PE → PE/8.1

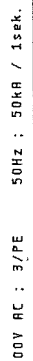
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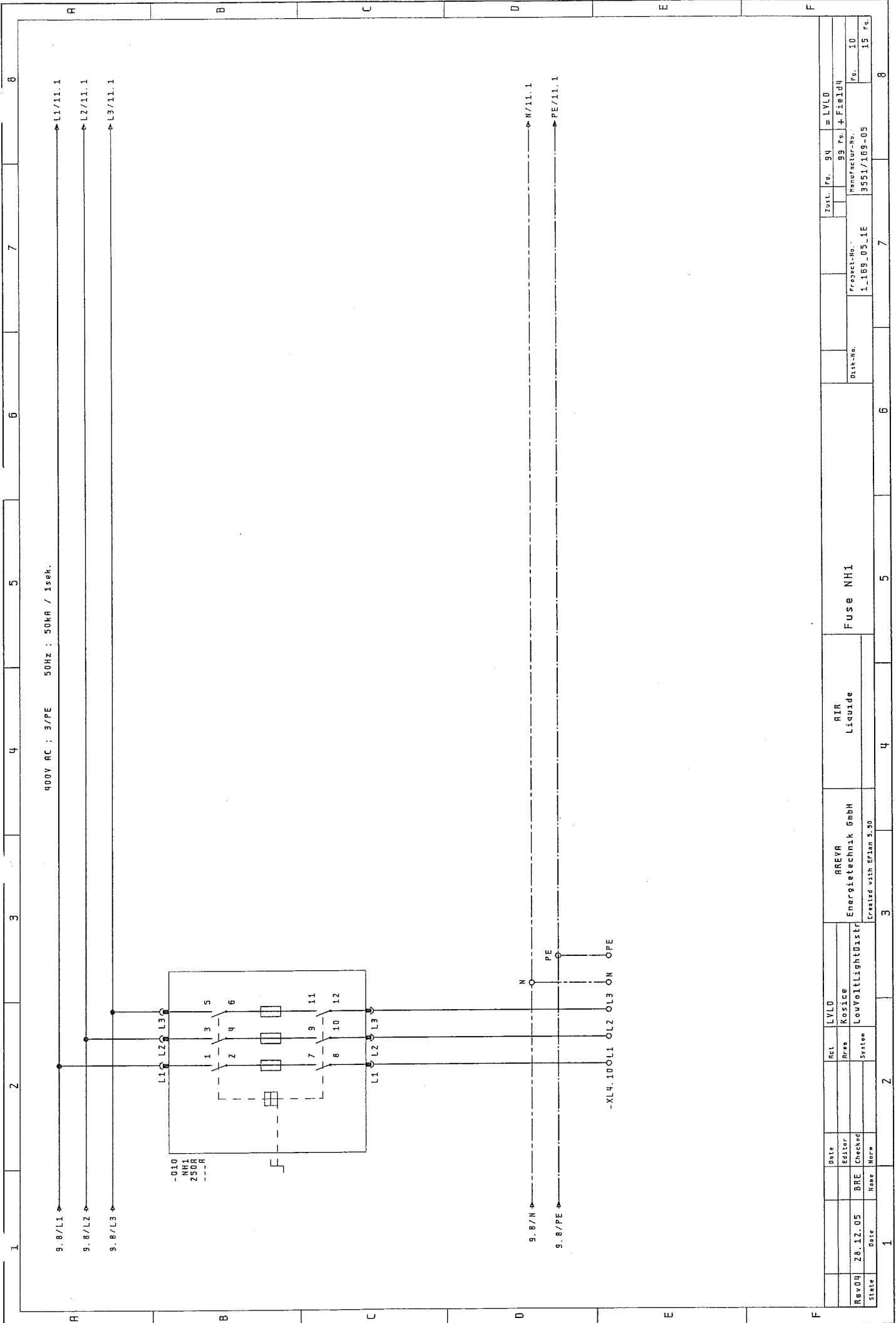
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Created with EPLAN 5.30		None		None		None		None		None		None		None	
RREVA		Energietechnik GmbH		RIR		Liquide		Fuse NH1		Zust.		Pg. 91		= LVL	
Project-No.		1_109-05_1E		Manufacturer-No.		3551/169-05		99 Pg. + Field		Disk-No.		Pg. 7		Pg. 15	



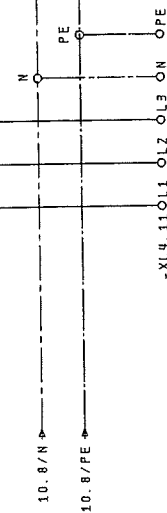
Rev04	28.12.05	BRE	Editor	Checked	Norm	System	Area	Rect	LVLID	Kosice	LowVoltageDistri	AREVA Energietechnik GmbH	AIR Liquide	Fuse NH1	Zust. Pa. 92	99 Pa. + Field	Project-No. 1-169_05_1E	Manufacturer-No. 3451/169-05	Page 8	15 Pa.
State	Date	Name	Editor	Checked	Norm	System	Area	Rect	LVLID	Kosice	LowVoltageDistri	AREVA Energietechnik GmbH	AIR Liquide	Fuse NH1	Zust. Pa. 92	99 Pa. + Field	Project-No. 1-169_05_1E	Manufacturer-No. 3451/169-05	Page 8	15 Pa.



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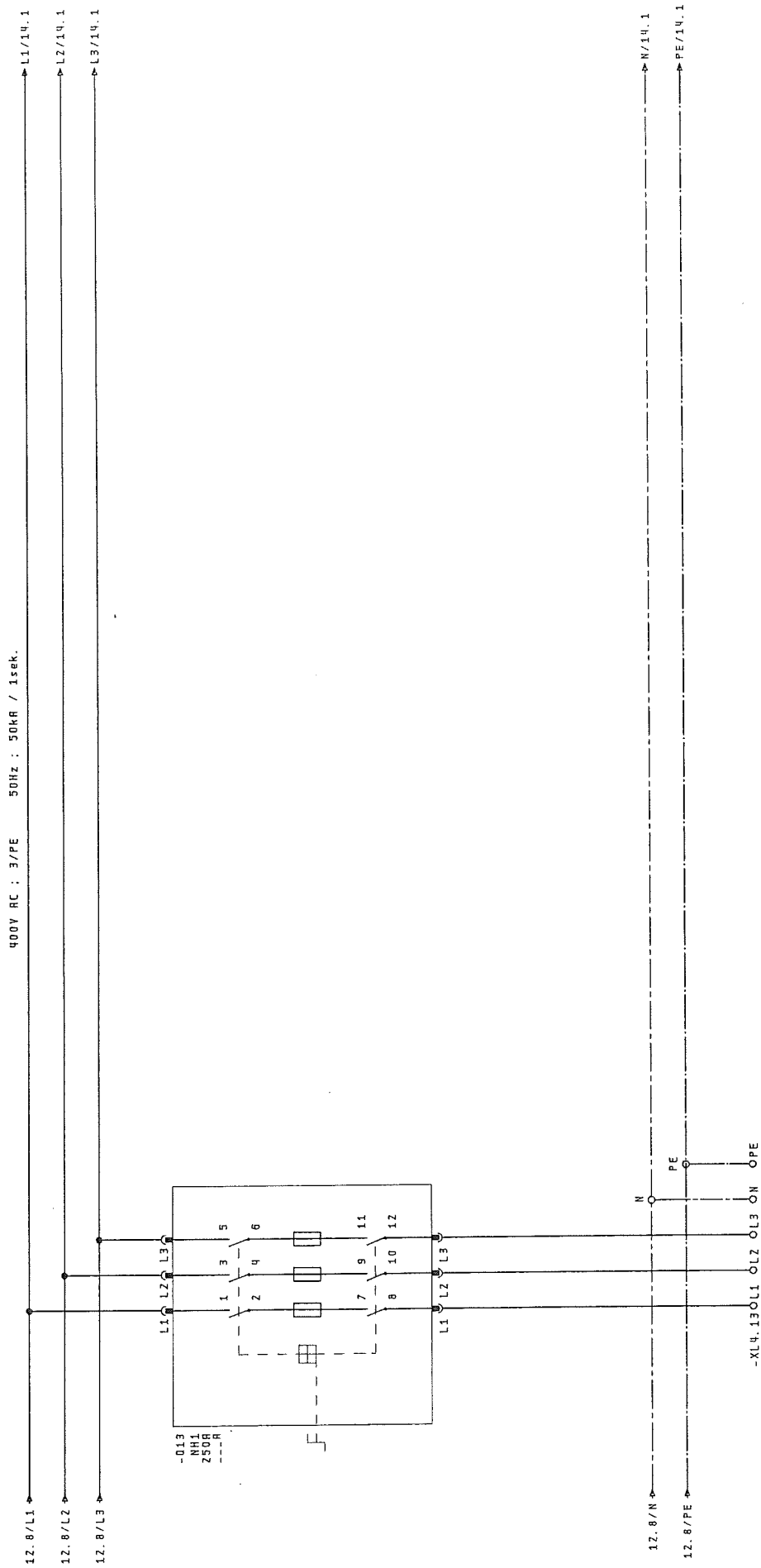


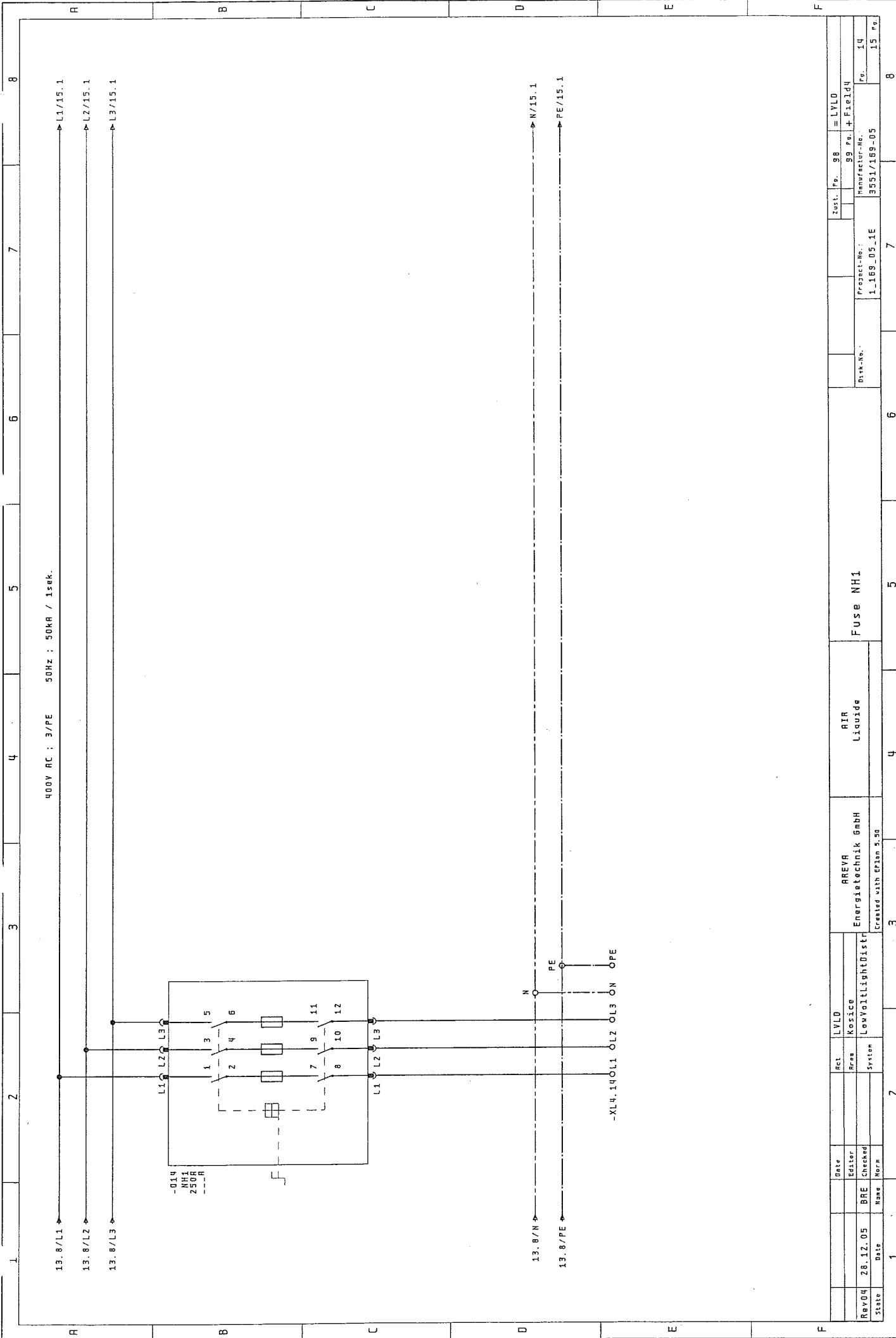
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State	Date	Rev	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	
Created with EPLAN 5.30		3		4		5		6		7		8									

[illegible]



			Date		Rct	LVLd	AREVA Energietechnik GmbH	AIR Liquide	Fuse NH1	Just.	Pg.	96	= LVLd
			Eddr		Area	Kosice						99	Pg. + Field4
Rev04	28.12.05	BRE	Checked		System	LowVoltageDistr			Dish-No. Project-No. Manufacture-No.				Pg. 12
State	Date	Name	Note				Created with EPLAN 5.90		3551/169-05				15 Pg.

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Rev04	28.12.05	BRE	Editor	Act	LVLID	AREVA	AIR	Fuse NH1	Dist. No.	98	99	Field	14	15
State	Date	Name	Checked	Area	System	Energiertechnik GmbH	Liquide		Project-No.:	1.169_05-1E	3551/189-05			
						Created with EPLAN 5.30			Manufacturer-No.:					

