

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T80

Autotransformer  
CIRCUIT DIAGRAM

A = L02

/ A01

D009781.02. 602-3. AHA

50.3023.01.A3.741.224  
COVER SHEET  
PANEL  
02

DATE :	13.07.2005
prep.:	Brünert
Check:	Adam
Norm :	

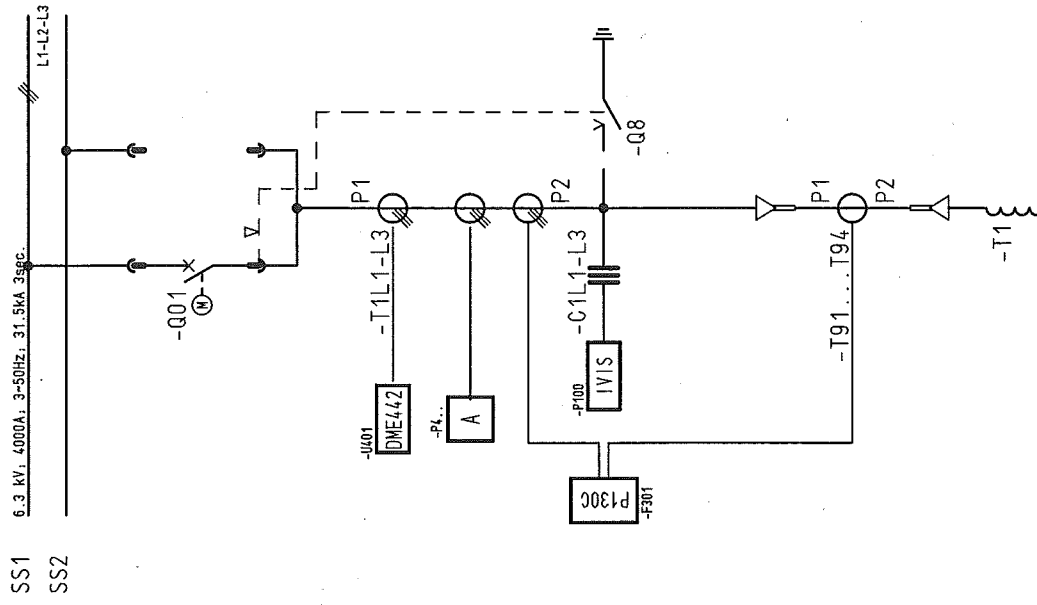
22.12.2006 H10115MD  
D00978102  
=L02  
A01  
ADAM

03 AS BUILT	05.12.2006	AD
02 Fact.-Rev.	09.11.2005	AD
01 Approval	20.09.2005	AD
Nr. Alteration	Date	Name

INSTRU. AND CONTROL				
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-08 -001, -002		-001, -002	
STATUS SIGNAL	-001, -002, -08		-001, -002, -08	
MEASUREMENT	I (L1-L3)		I (L2), U(L1-L2) P (P2), Q(Q2)	
PROTECTION ANSI	MICON P130C 27.32, 46.44, 49.50P, 50N, 50BF, 51.51N, 59.59N, 66.67, 67N, 79.810 81U.86			
METERING				

[illegible]

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYPE	RATIO	WDE	REMARKS
-T1L1	AEG	CT12	1250/1/1/1A	C1: cl. 0.2F55 15VA	
-T1L2	AEG	CT12	1250/1/1/1A	C2: cl. 1F55 15VA	
-T1L3	AEG	CT12	1250/1/1/1A	C3: cl. 10P10 15VA	
-T91	AEG	RKT 250/160 6r-3	60/1A	C1: cl. 3F55 1.2VA	
-T92	AEG	RKT 250/160 6r-3	60/1A	C1: cl. 3F55 1.2VA	
-T93	AEG	RKT 250/160 6r-3	60/1A	C1: cl. 3E55 1.2VA	
-T94	AEG	RKT 250/160 6r-3	60/1A	C1: cl. 3F55 1.2VA	
-C1L1	AREVA	IVIS			CAP. TAPPING
-C1L2	AREVA	IVIS			
-C1L3	AREVA	IVIS			



# AUTOTRANSFORMER

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		CIRCUIT DIAGRAM		50.3023.01.A3.741.224	A = L02	
02	Fact.-Rev.	09.11.2005	AD	Drawn Bräuner	50.3023.01			PANEL				/ AD2
01	Approval	20.09.2005	AD	Check Adam	SUBSTATION 180					Typ: 10		Sheet 2
NO.	Alteration	Date		Named Std.	Orig.	Iss. for		Iss. by:		Auto transformer	D009781.02.602-3.AHA	99Sh.

CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER	VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET	DESIGN
					SORT MATCHING	ITEM NO.		
50.3023.01.A3.741		D009781.02.602-3.AHA	01	02	A =L02	A01	1	COVER SHEET
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	A =L02	A02	2	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	A =L02	B01	3	Inhaltssverzeichnis
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	A =L02	B02	4	Inhaltssverzeichnis
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	A =L02	B03	5	Inhaltssverzeichnis
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	A =L02	B04	6	Inhaltssverzeichnis
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	D01	7	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	600	8	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	601	9	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	602	10	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	L01	11	CIRCUIT DIAGRAM
50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	M01	12	CIRCUIT DIAGRAM
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50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	P02	20	CIRCUIT DIAGRAM
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50.3023.01.A3.741	.224	D009781.02.602-3.AHA	01	02	S =L02	R01	30	CIRCUIT DIAGRAM
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					Inhaltssverzeichnis		50.3023.01.A3.741.224	
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					02		Typ: 10	
							Autotransformer	
							D009781.02.602-3.AHA	
							99Sh.	

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00978102

FIELD 02

22.12.2006

NO.

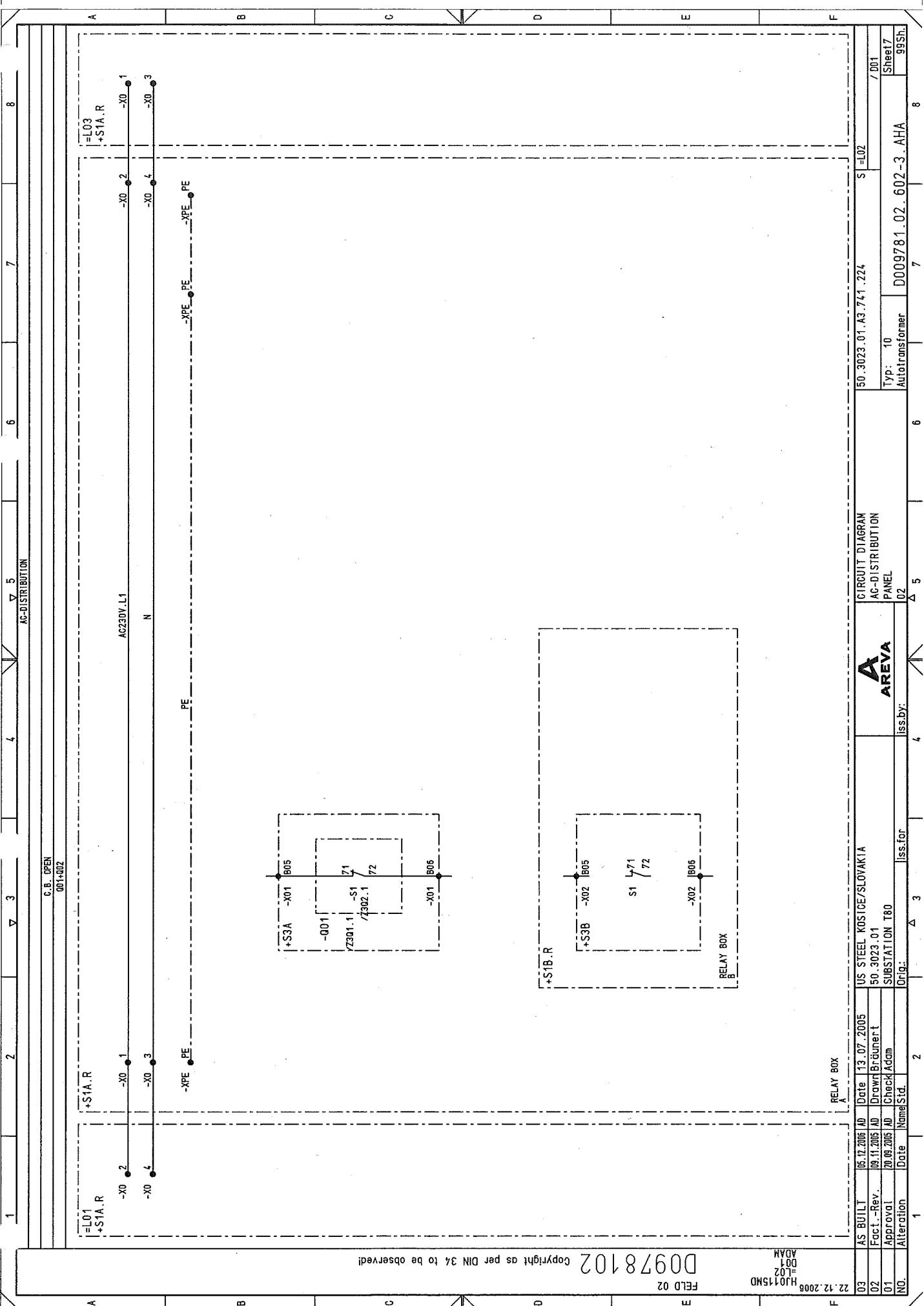
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	50.3023.01.A3.741.224	D009781.02.602-3.AHA	01	02	03	S =L02	V01	35	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 02					
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D	50.3023.01.A3.741.224	D009781.02.602-3.AHA	01	02	03	S =L02	Z1F2	44	LIST OF EQUIPMENT PANEL						
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E	50.3023.01.A3.741.224	D009781.02.602-3.AHA	01	02	03	S =L02	Z1P1	48	LIST OF EQUIPMENT PANEL						
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F	50.3023.01.A3.741.224	D009781.02.602-3.AHA	01	02	03	S =L02	Z2G1	52	LIST OF EQUIPMENT PANEL						
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	50.3023.01.A3.741.224	D009781.02.602-3.AHA	01	02	03	V =L02 +S1A.R	X01	62	TERMINAL DIAGRAM PANEL						
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Fact.-Rev. 06.11.2005 AD Drawn Bräunert		50.3023.01		PANEL		Type: 10		Autotransformer		Sheet 4					
Approval 26.06.2005 AD Check Adom		SUBSTATION T80		Iss.by:		D009781.02.602-3.AHA		99Sh.		8					
Alteration Date Name Std.		Orig:		Iss.for											

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D00978102  
FIELD 02





0303	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA
0302	Fact. -Rev.	09.11.2005	AD	Drawn/Revised	50.3023.01	
0301	Approval	20.09.2005	AD	Check/Adm.		
0300	Alteration	Date	Named/Std.	Orig.		
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						Iss.



AC-DISTRIBUTION

C.B. OPEN  
001+002

=L03  
+S1A.R

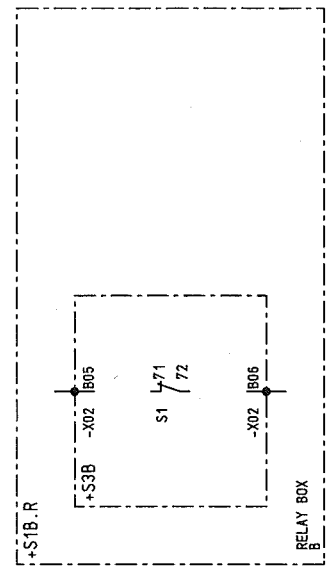
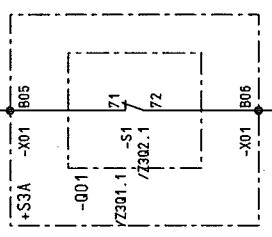
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AC230V L1

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-XPE PE -XPE PE



RELAY BOX

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02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner	50.3023.01	AC-DISTRIBUTION			
01	Approval	20.09.2005	AD	Check	Adm	SUBSTATION T80	PANEL	Typ: 10	Autotransformer	Sheet 7
NO	Alteration	Date				Orig:	Iss. for	Iss. by:		99Sh.

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FELD 02

HJ0115ND  
=L02  
DO1

22.12.2008

D00978102

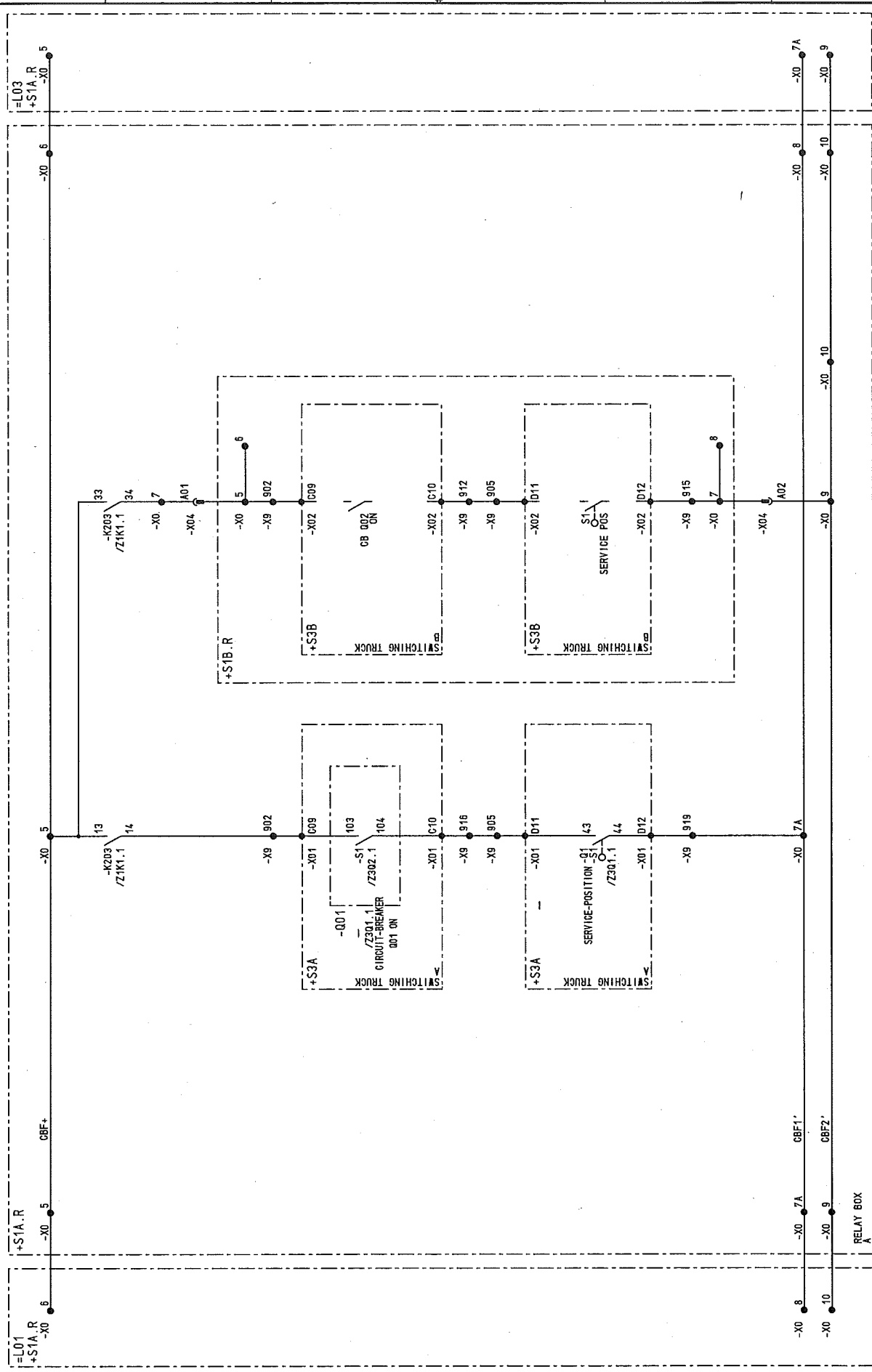
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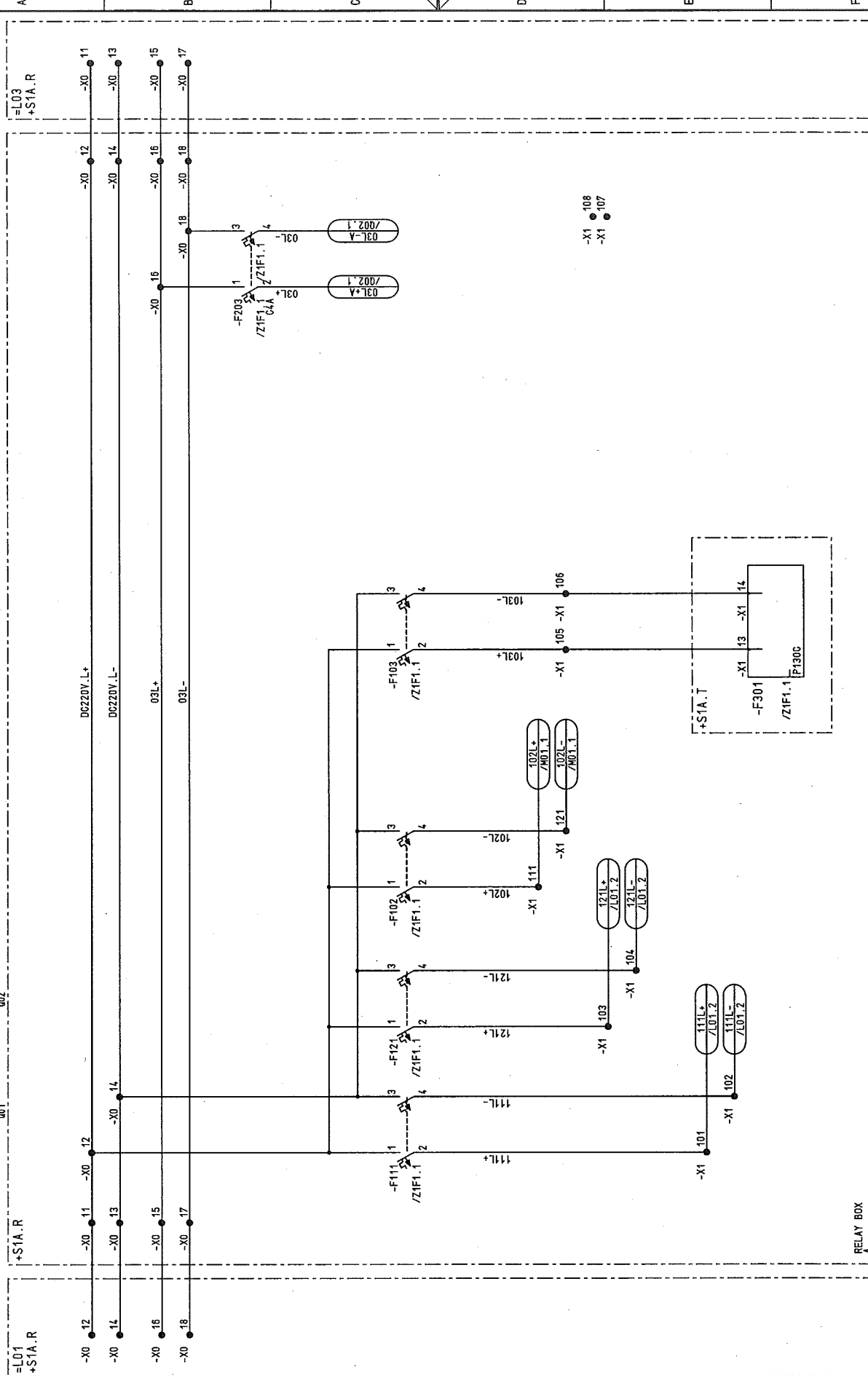
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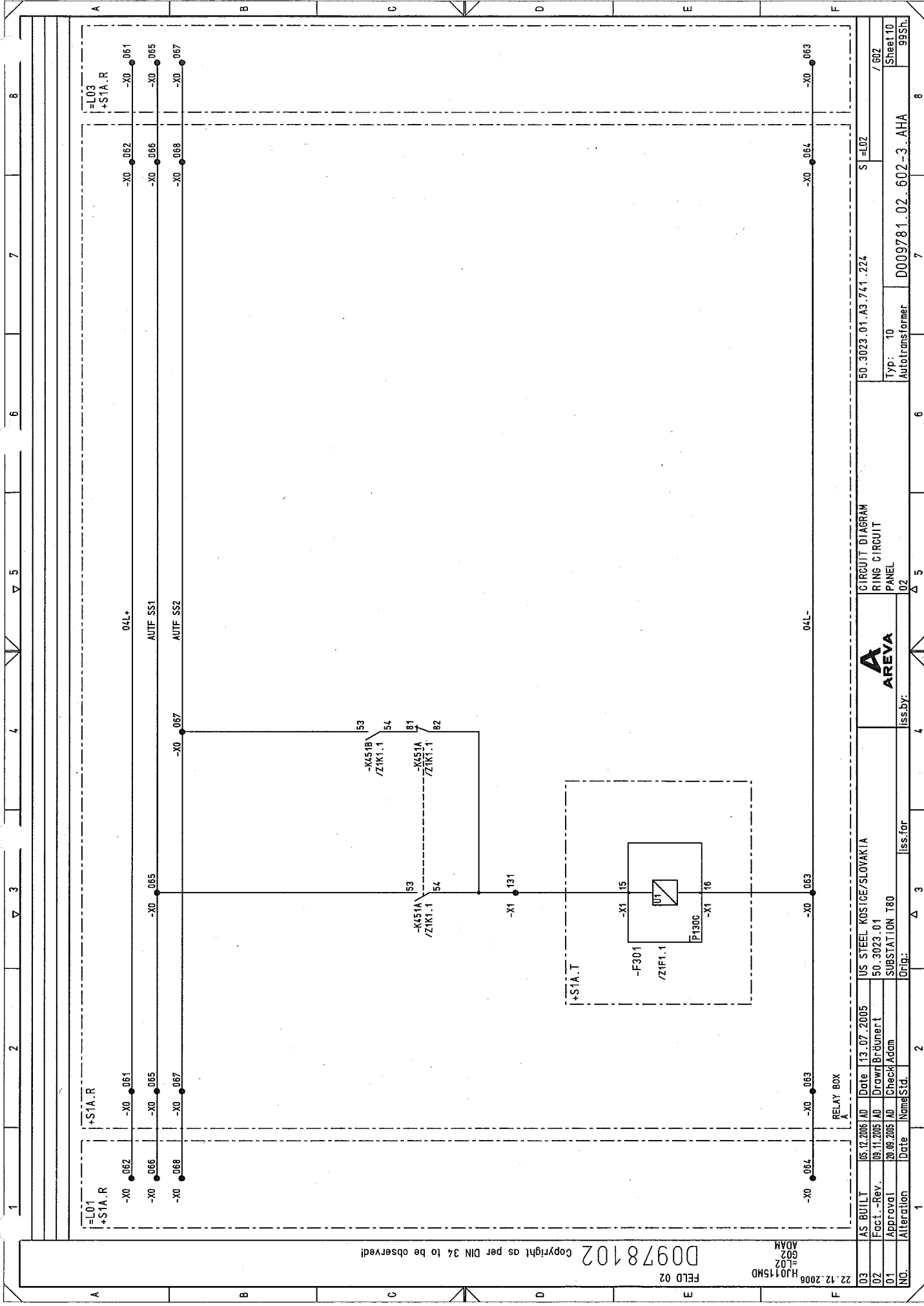
FELD 02

HJ0115MD  
600  
ADAM

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01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	PANEL			Sheet 8
NO	Alteration	Date	Name	Std.	2	Iss. for	Iss. by:	02	Autotransformer	99Sh.
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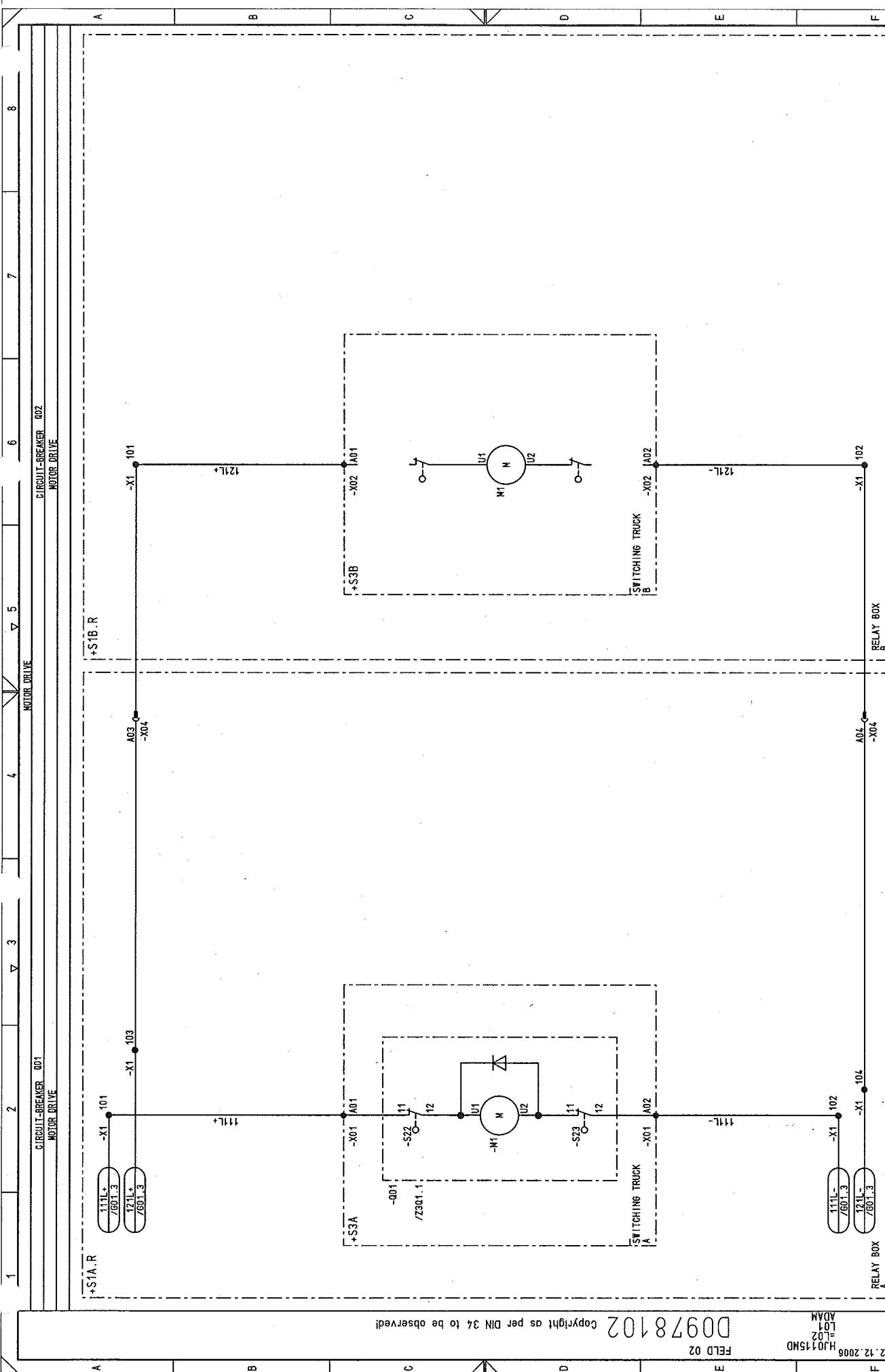
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22.12.2006  
HJ015MD  
L02  
602  
ADAM

FELD 02

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.224	S1=L02	/ 602
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünert		RING CIRCUIT			
01	Approval	20.06.2005	AD	Check	Adam	SUBSTATION T80	PANEL			Sheet 10
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	02	D009781.02.602-3.AHA	Autotransformer	99Sh.

RELAY BOX



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00978102

22.12.2006  
HJ0115MD  
L01  
=L02  
ADAM

FELD 02

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	MOTOR DRIVE	50.3023.01.A3.741.224	S = I02	/ L01
02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert	50.3023.01	CIRCUIT-BREAKER	PANEL			Sheet 11
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80					99Sh
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	Autotransformer	D009781.02.602-3.AHA	

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FELD 02

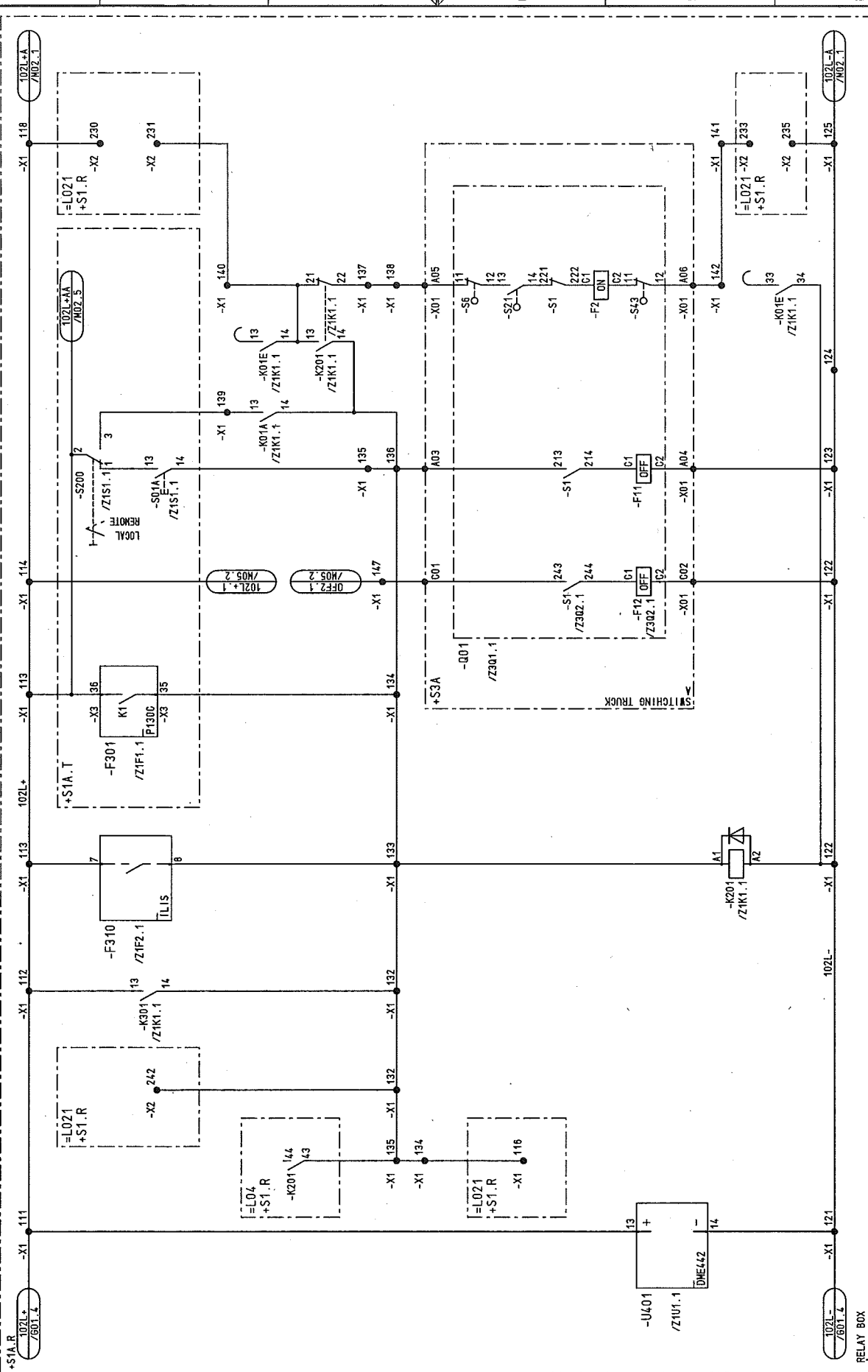
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02	Fact.-Rev.	06.11.2005	AD	Drawn	Brüner	50.3023.01	CONTROL			
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	PANEL			
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2										
3										
4										
5										
6										
7										
8										

Typ: 10  
Autotransformer

D009781.02.602-3.AHA

99Sh.



RELAY BOX

CIRCUIT DIAGRAM

AREVA

CONTROL

PANEL

02

50.3023.01.A3.741.224

S=L02

/M01

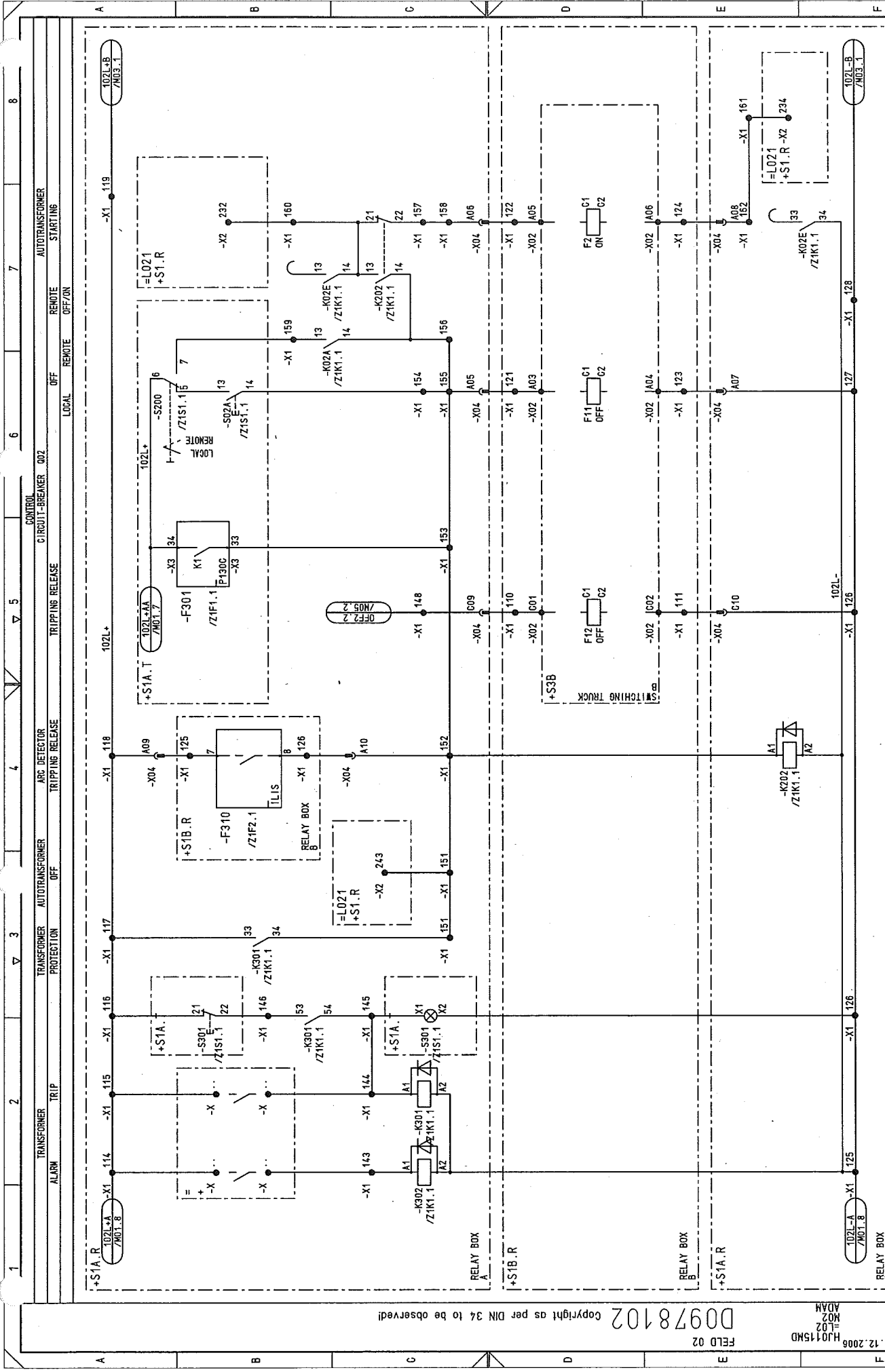
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Autotransformer

D009781.02.602-3.AHA

99Sh.





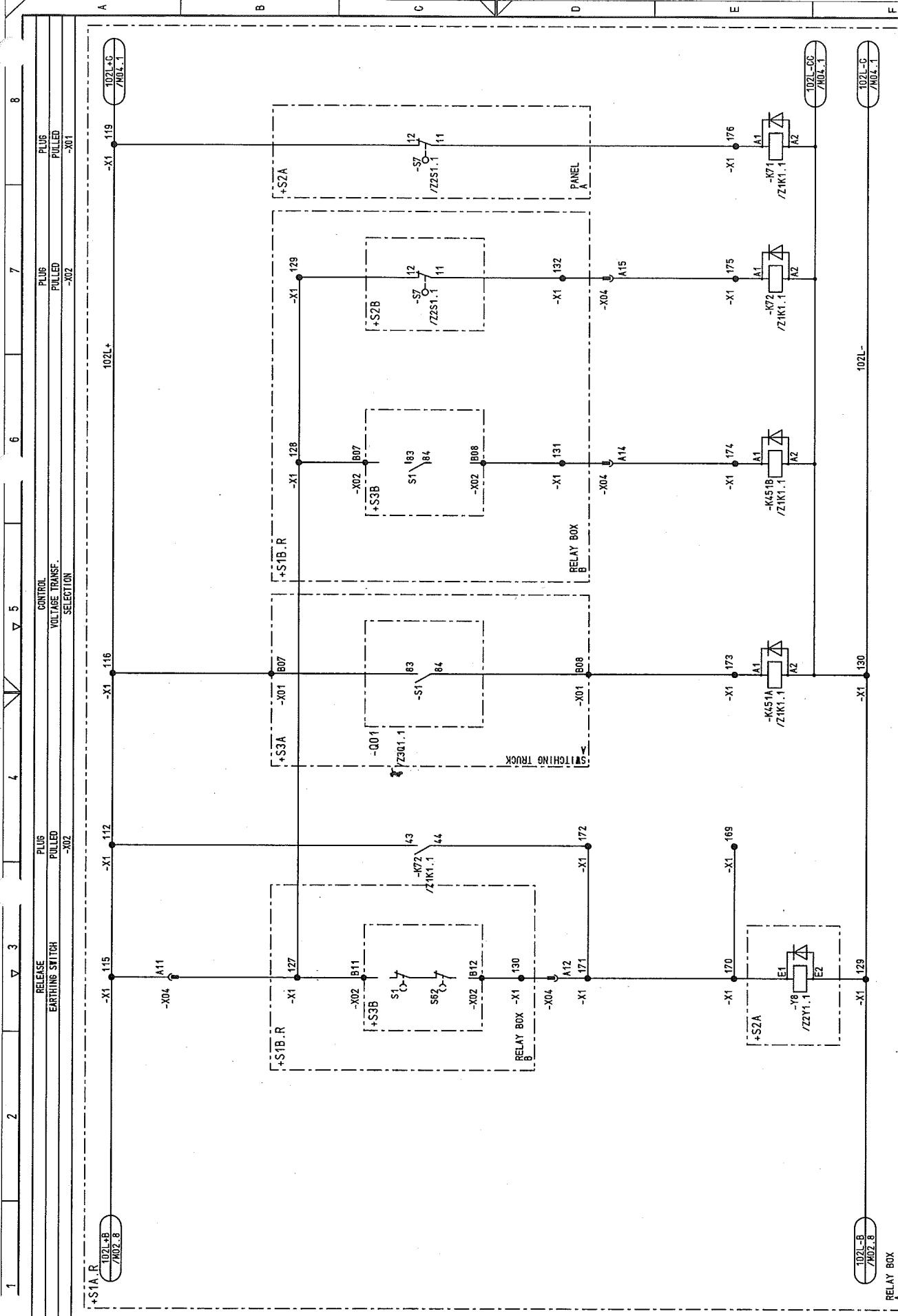
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02 Fact.-Rev.		06.11.2005	AD	Drawn	Brünnert	50.3023.01	CONTROL		Typ: 10		Autotransformer		D009781.02.602-3.AHA		7		6		5	
01 Approval		20.09.2005	AD	Check	Adam	SUBSTATION T80	PANEL		02		Iss.by:		Iss.for		2		3		4	
NO. Alteration		Date	Name	Std.	Orig.		RELAY BOX		1		2		3		4		5		6	

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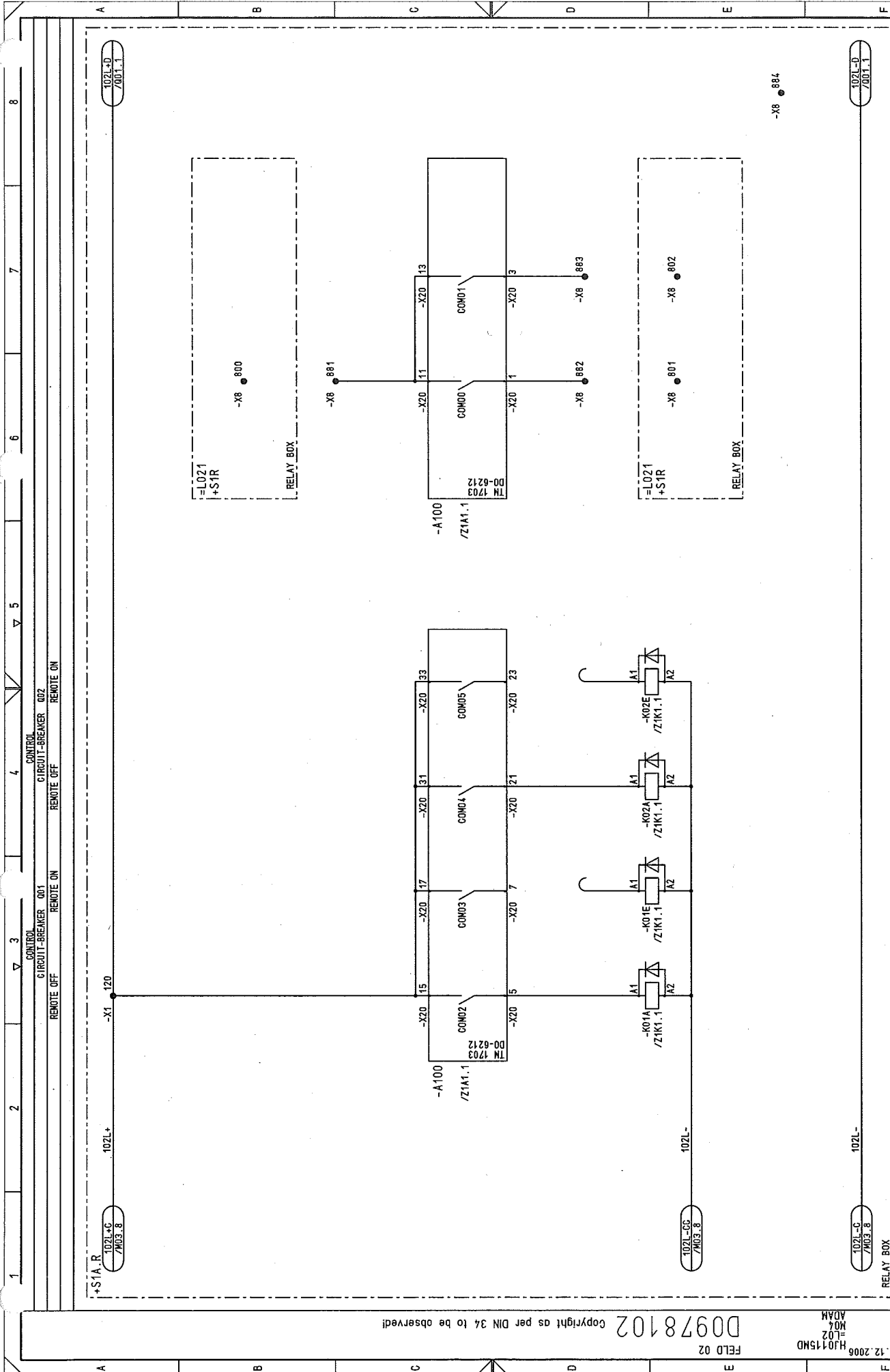
FIELD 02

HJ0115MD  
L02  
ADAM

D00978102



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AS BUILT		05.12.2005		AD		Date		13.07.2005		US STEEL KOSTICE/SLOVAKIA		CIRCUIT DIAGRAM		50.3023.01.A3.74.1.224	
Fact.-Rev.		08.11.2005		AD		Drawn		Bräunert		50.3023.01		CONTROL		S=L02	
Approval		20.08.2005		AD		Check/Adm				SUBSTATION T80		PANEL		Typ: 10	
Alteration		Date		Name		Std.		Iss.by:		Iss.for		02		Autotransformer	
NO.		Alteration		Date		Name		Std.		Iss.by:		02		D009781.02.602-3.AHA	
														Sheet 14	
														99Sh.	
														/ M03	



NO.		Alteration	Date	Name	Std.	Iss. for	Iss. by:	SUBSTATION T80		US STEEL KOSTICE/SLOVAKIA		Date 13.07.2005		AS BUILT		05.12.2005		AD		03													
01		Approval						Check Adam								08.11.2005		AD		02													
02		Fact.-Rev.						Drawn Bräunert																									
03		AS BUILT						<div><div>A</div><div>AREVA</div></div>		CIRCUIT DIAGRAM CONTROL PANEL		50.3023.01.A3.741.224		S=L02		/ M04		Sheet 15		99Sh.													

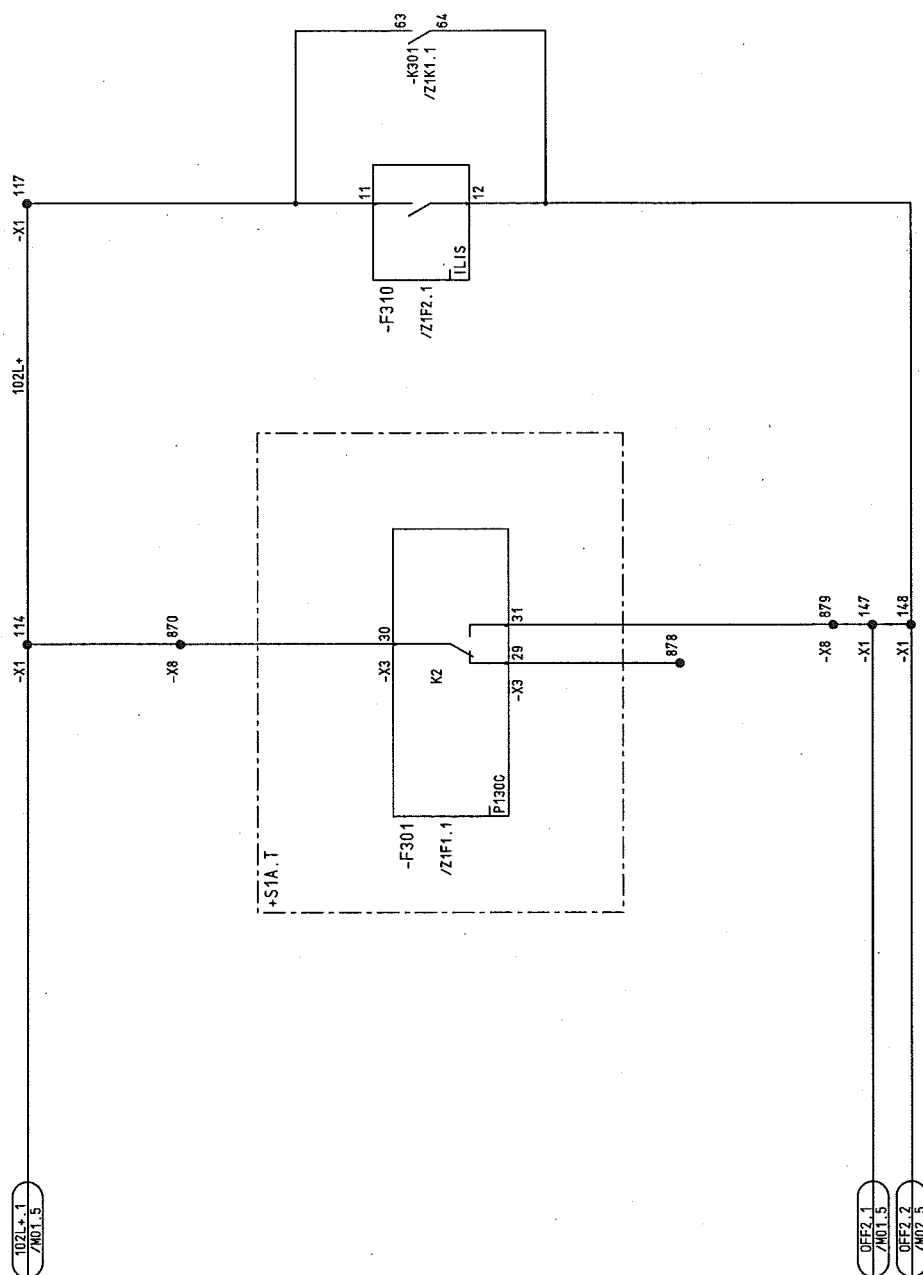
Copyright as per DIN 34 to be observed!

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L02  
ADAM

FELD 02

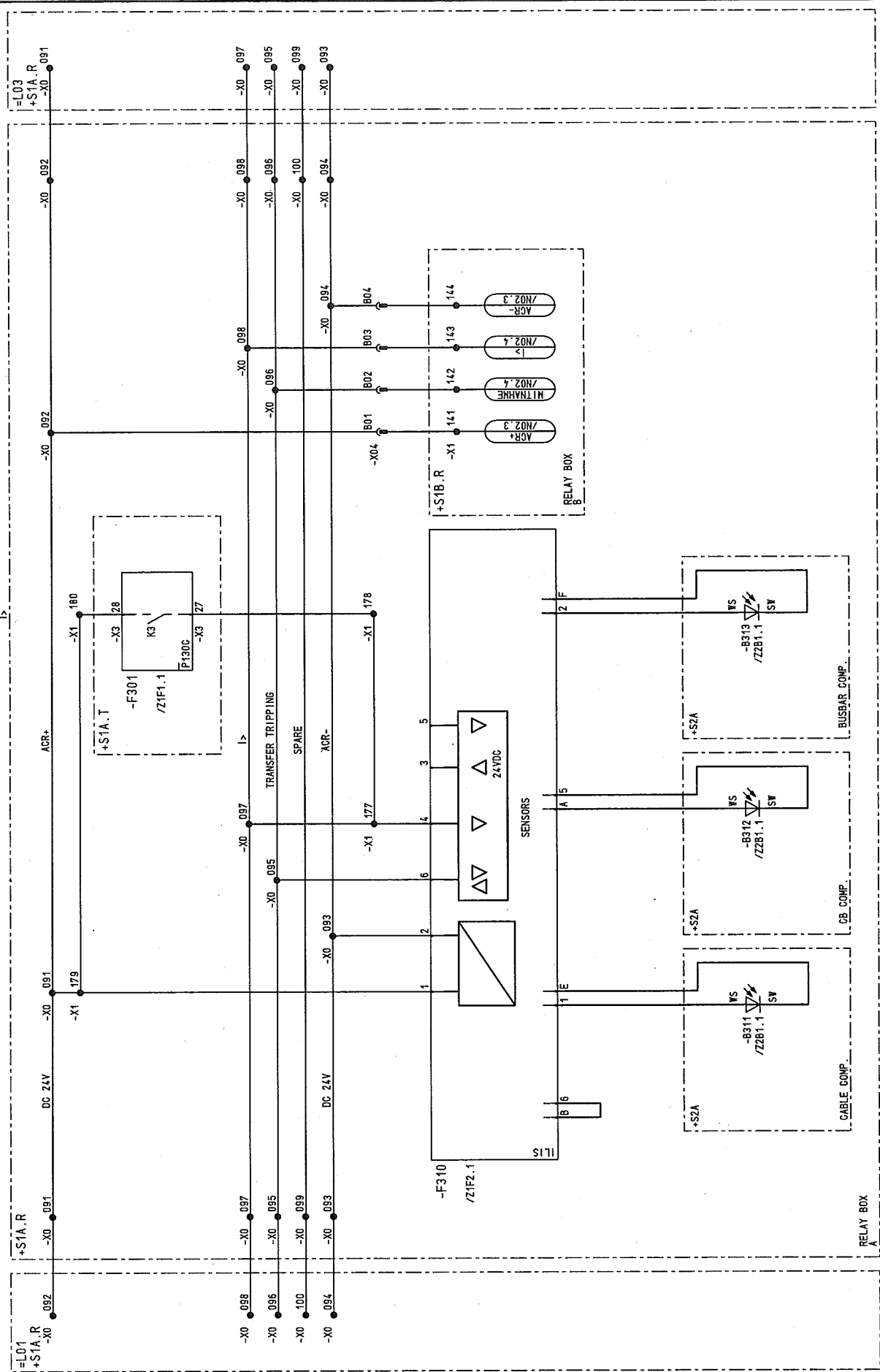
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+S1A.R



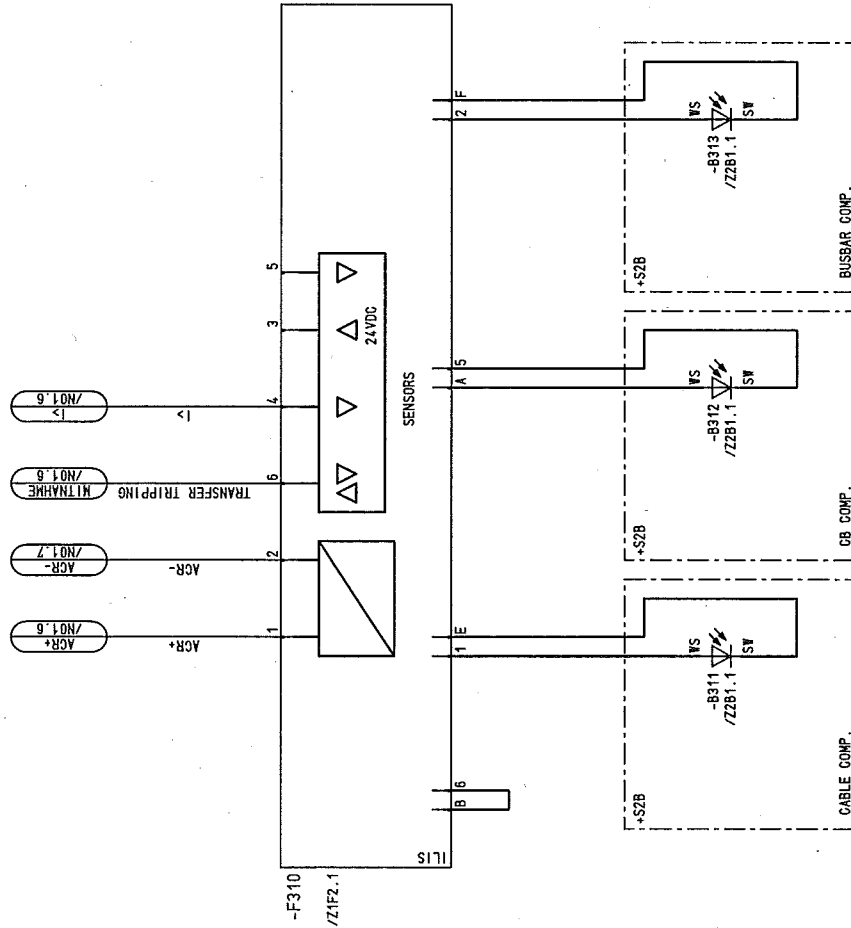
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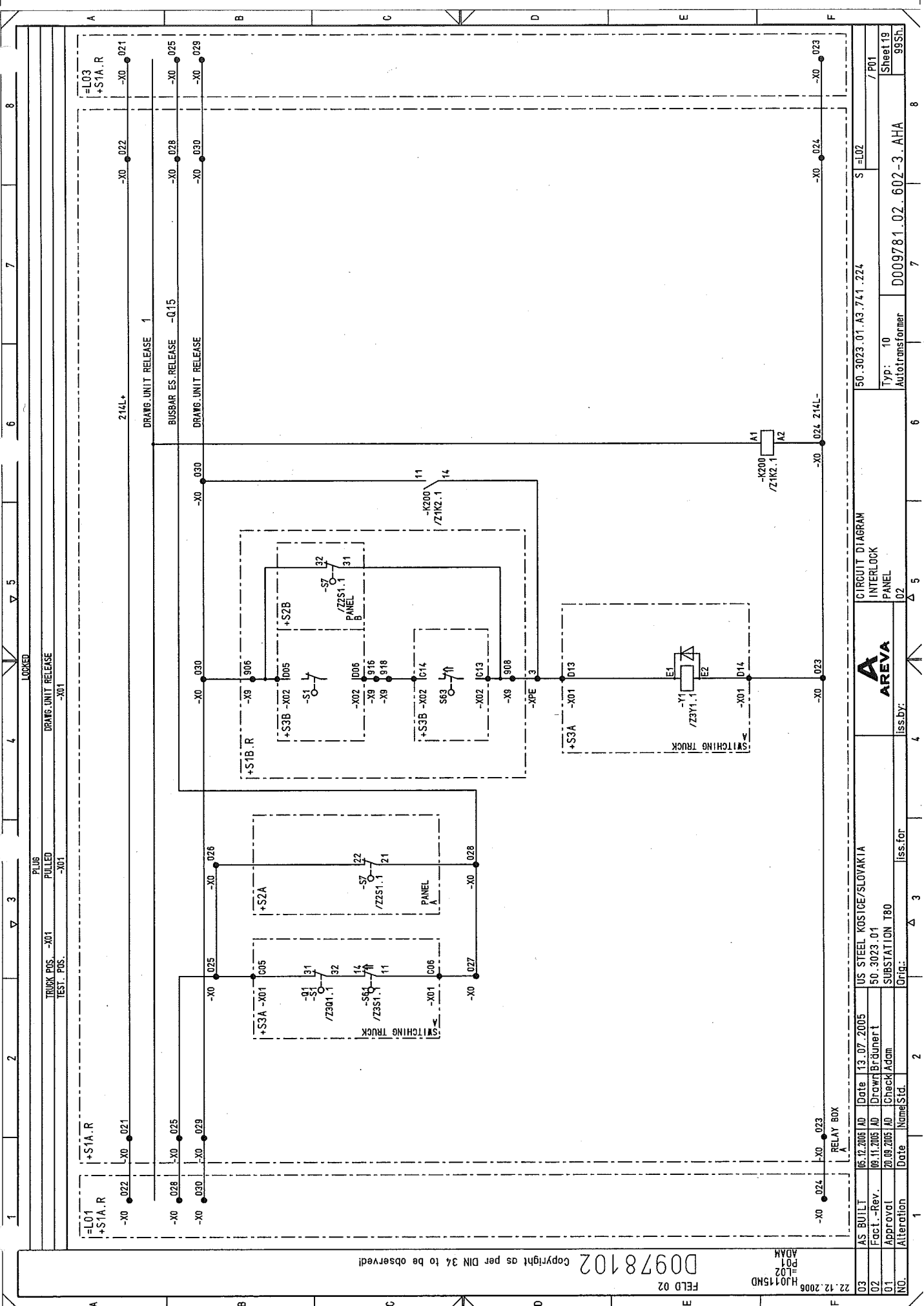
POWER SUPPLY  
ARC DETECTOR

\*S1B.R



RELAY BOX

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Copyright as per DIN 34 to be observed!

22.12.2006  
H40115ND  
P01  
ADAM

D0978102

FELD 02

NO.	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.224	S=L02	/P01
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner	50.3023.01	INTERLOCK			
01	Approval	20.08.2005	AD	Check	Adam	SUBSTATION T80	PANEL			
00	Alteration			Date	Names	Std.	Iss. by:	Iss. for	Orig.	
1										
2										
3										
4										
5										
6										
7										
8										

Typ: 10  
Autotransformer

D009781.02.602-3.AHA

Sheet 19  
99Sh.









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D0978102

FELD 02

H0115MD  
003  
LO2  
ADAM

22.12.2006

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.224	S=L02	/003
02	Fact.-Rev.	08.11.2005	AD	Drawn	Bräunert	50.3023.01	INTERFACE			Sheet23
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	PANEL			99Sh.
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:			



02

CIRCUIT DIAGRAM

Autotransformer

Typ: 10

D009781.02.602-3.AHA

99Sh.

Sheet23

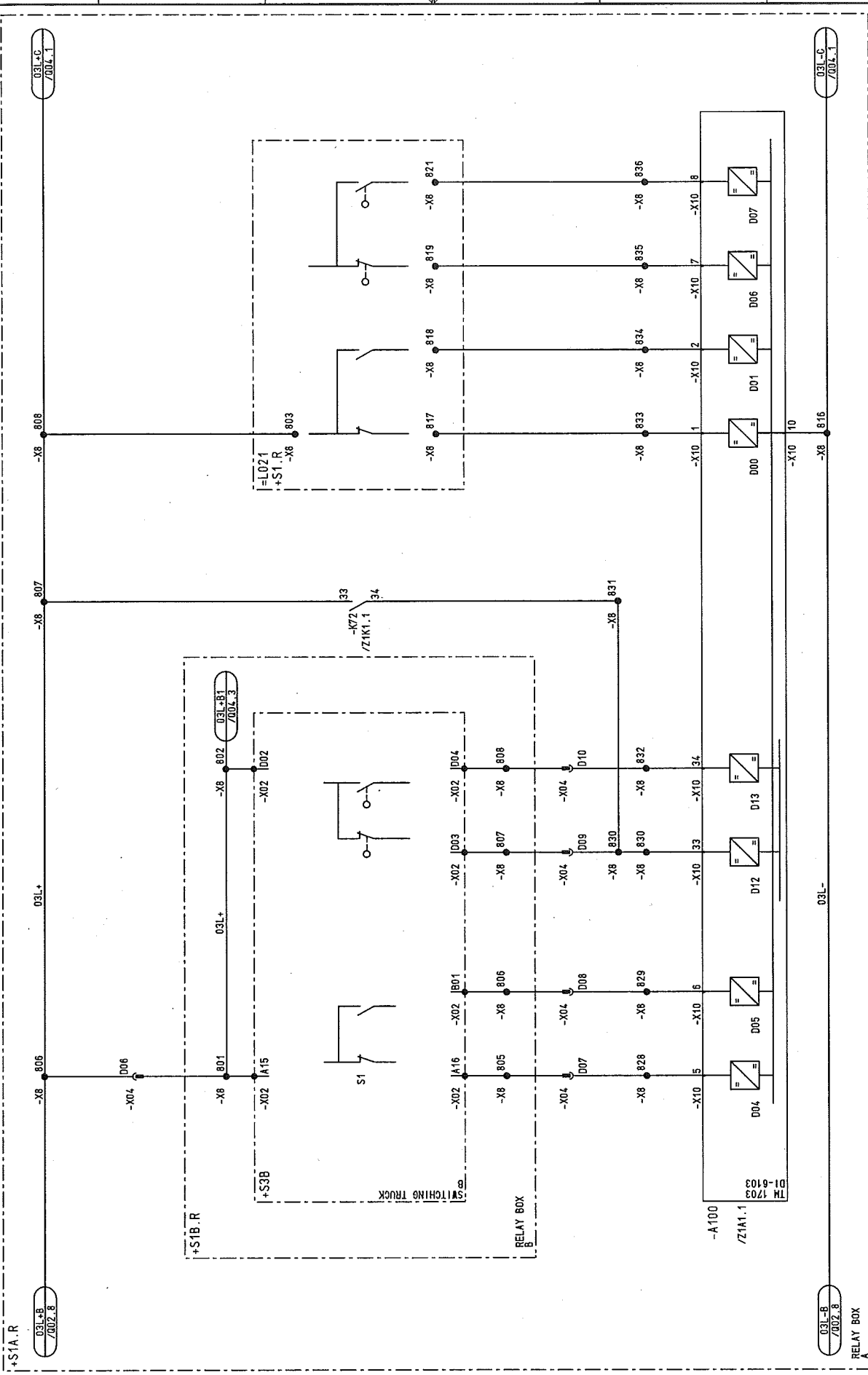
003

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03L-C /004.1

03L-B /002.8

03L+ 806

03L+ 807

03L+ 808

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03L+ 812

03L+ 813

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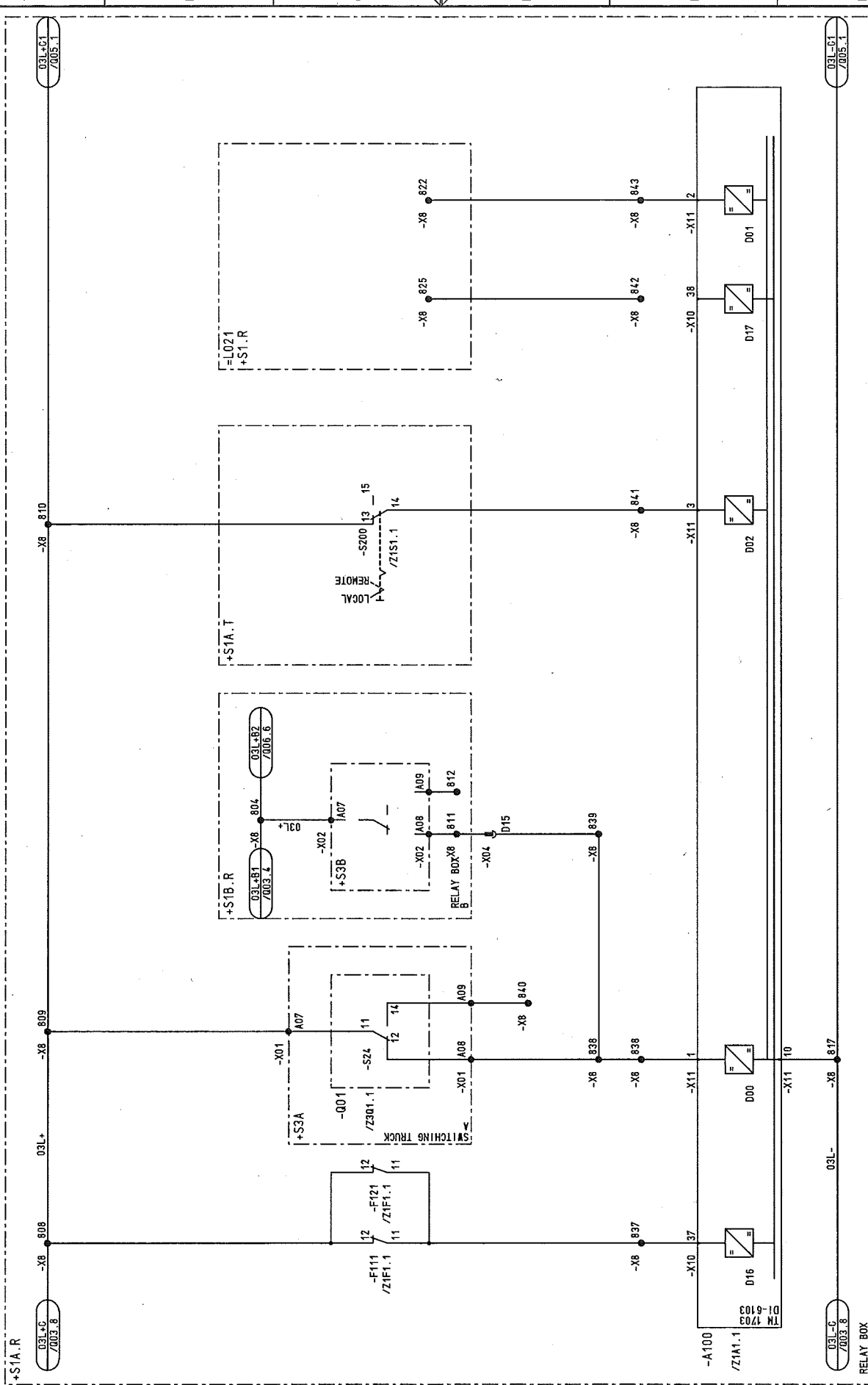
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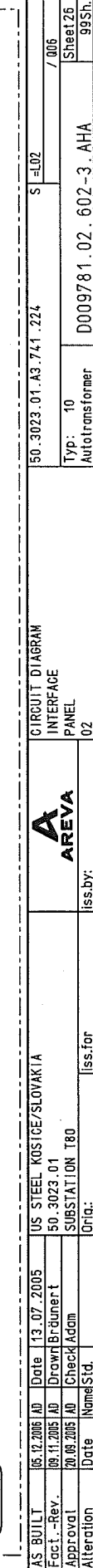
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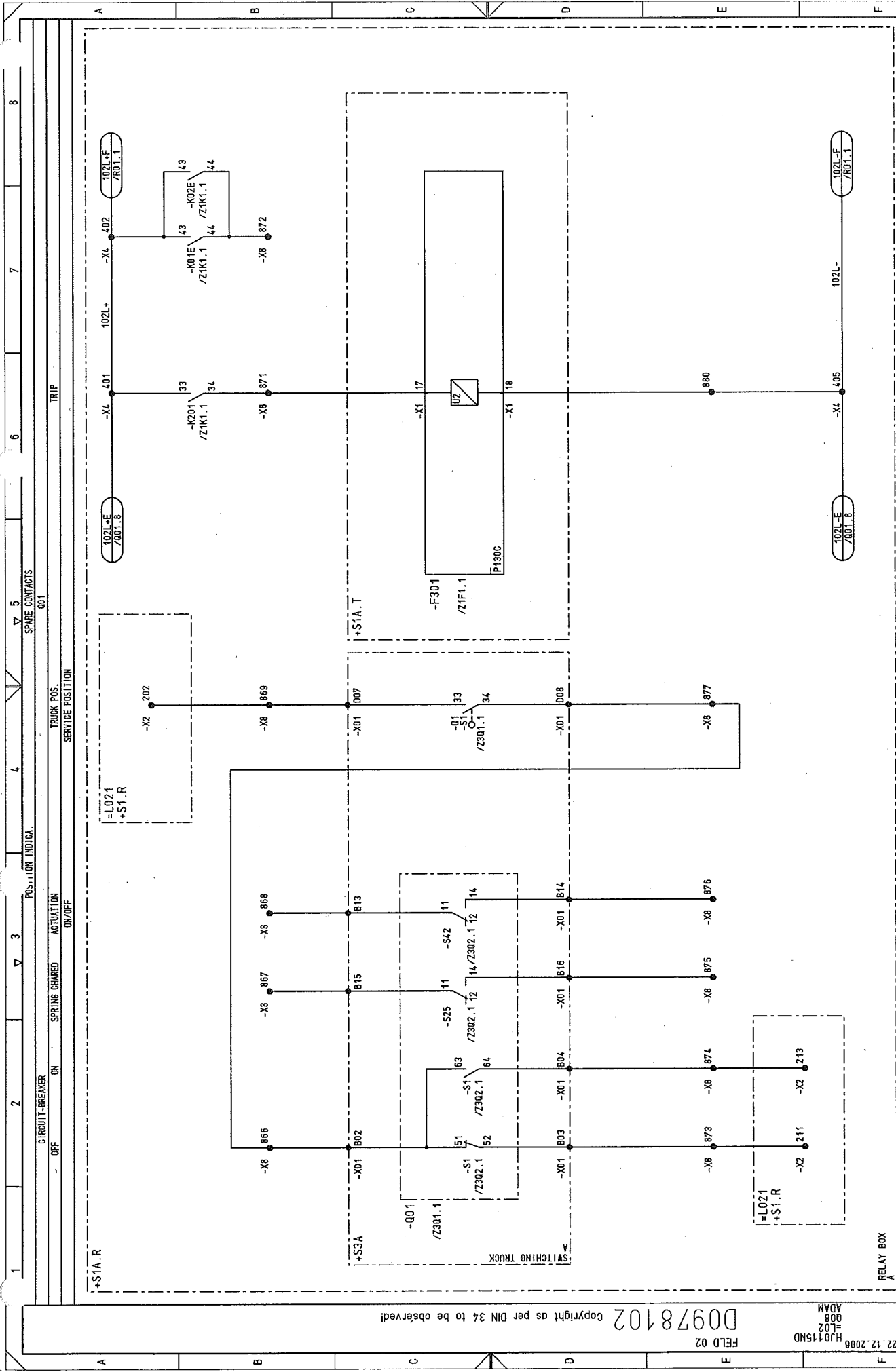
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002	Fact. -Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01						
001	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80						
NO.	Alteration	Date	Name	Std.		Orig.	iss. for	iss. by:	02	Autotransformer	D009781.02.602-3. AHA	99Sh. Sheet25





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ADAM

**RELAY BOX**



NO.		Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	PANEL 02		SPARE CONTACTS		CIRCUIT DIAGRAM		50.3023.01.A3.741.224		S1=L02		99Sh.		Sheet 28		/ 008	
03		AS BUILT	06.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA																	
02		Fact.-Rev.	06.11.2005	AD	Drawn	Brünnert	50.3023.01																	
01		Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80																	
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D0978102 Copyright as per DIN 34 to be observed!

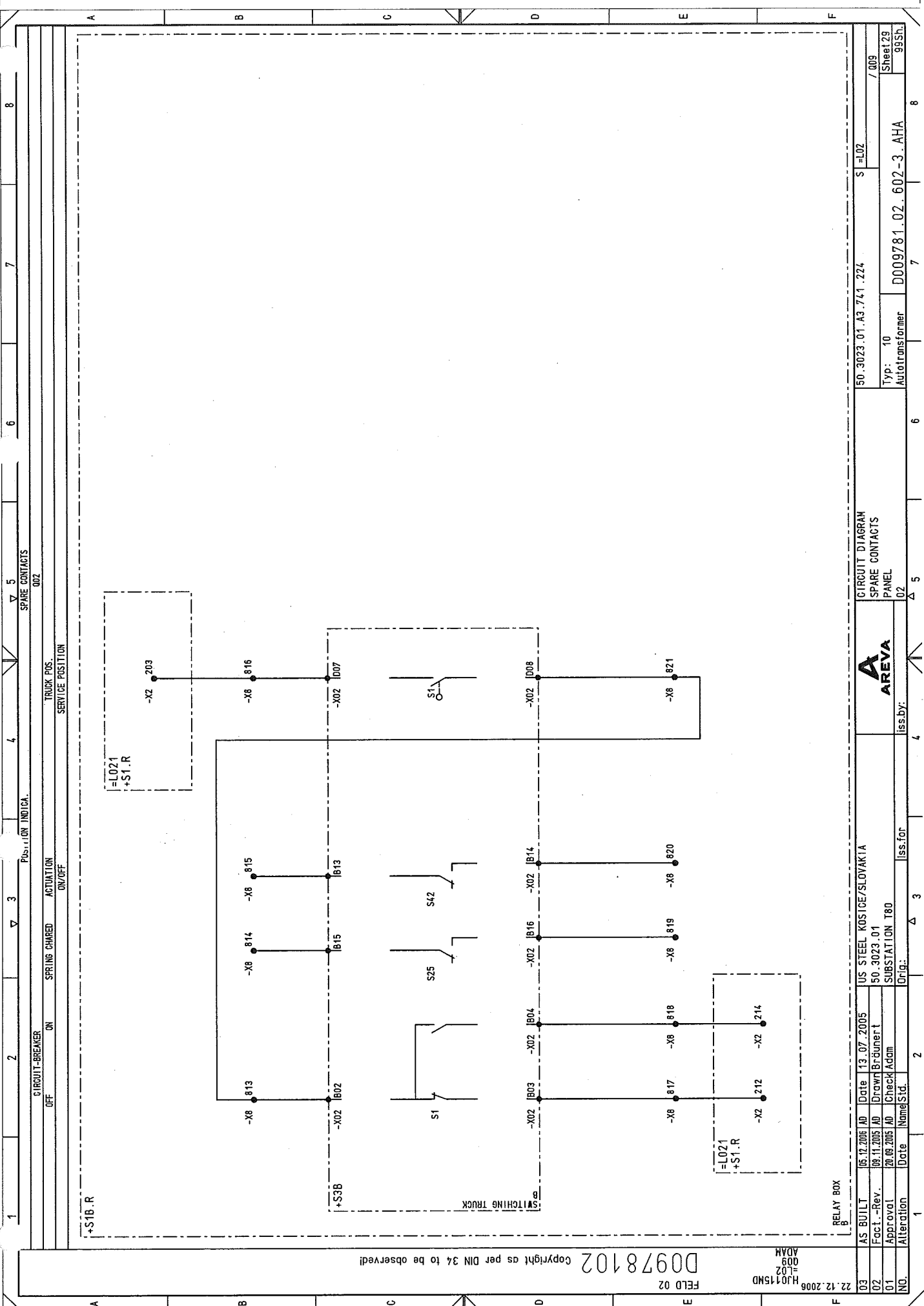
HJ0115MD  
008  
ADAM

FELD 02

RELAY BOX

SWITCHING TRUCK





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FELD 02

22.12.2006  
HJ0115ND  
009  
ADAM

D0978102

RELAY BOX

NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	AREVA	CIRCUIT DIAGRAM SPARE CONTACTS PANEL	50.3023.01.A3.741.224	S=L02	99Sh.
03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA				
02	Fact. -Rev.	09.11.2005	AD	Drawn	Brüner	50.3023.01				
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80				
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	AREVA	CIRCUIT DIAGRAM SPARE CONTACTS PANEL	50.3023.01.A3.741.224	S=L02	99Sh.

Typ: 10  
Autotransformer

D009781.02.602-3.AHA

Sheet 29

99Sh.

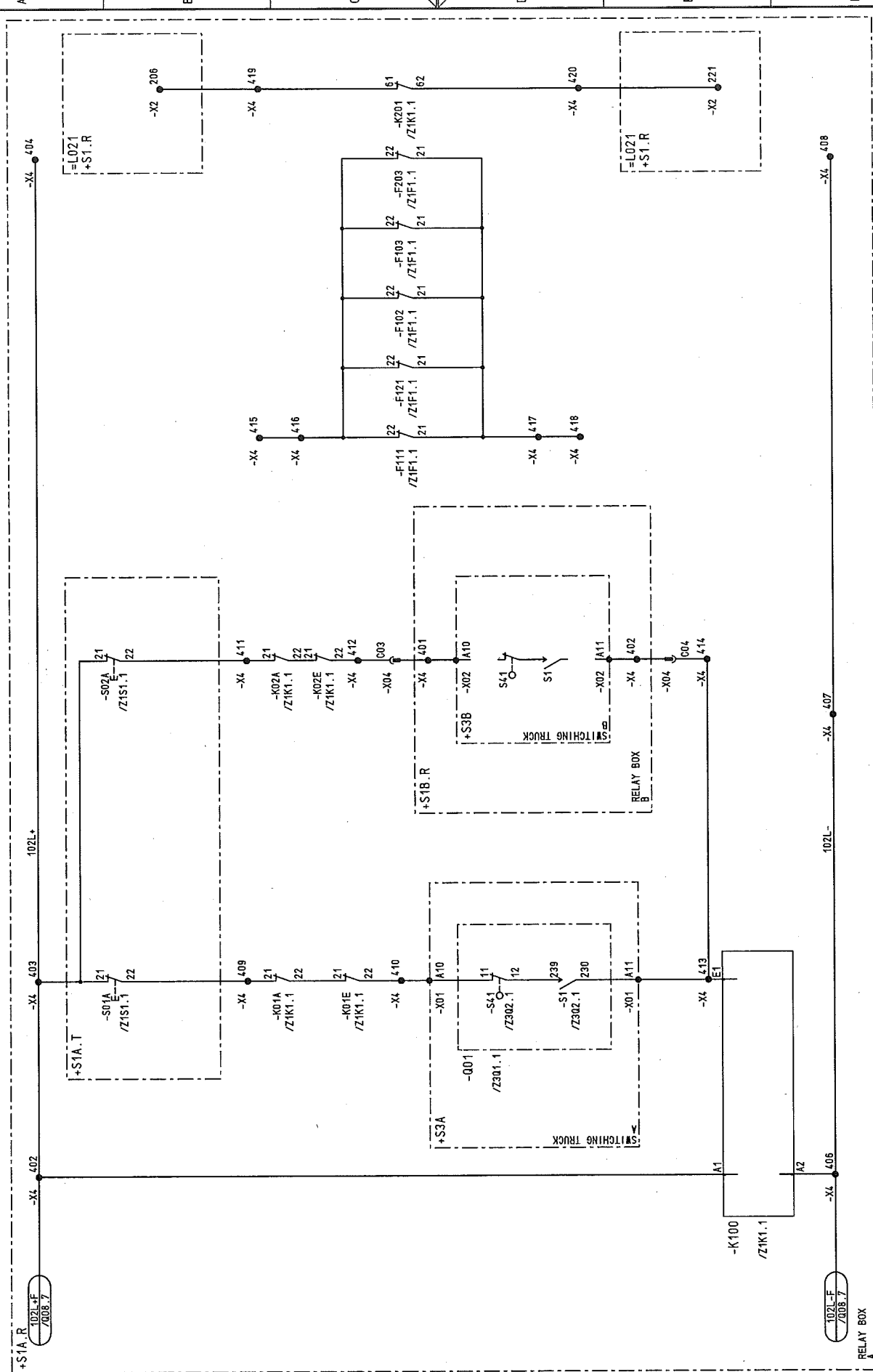
Copyright as per DIN 34 to be observed!

22.12.2006  
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ADAM

FELD 02

D00978102

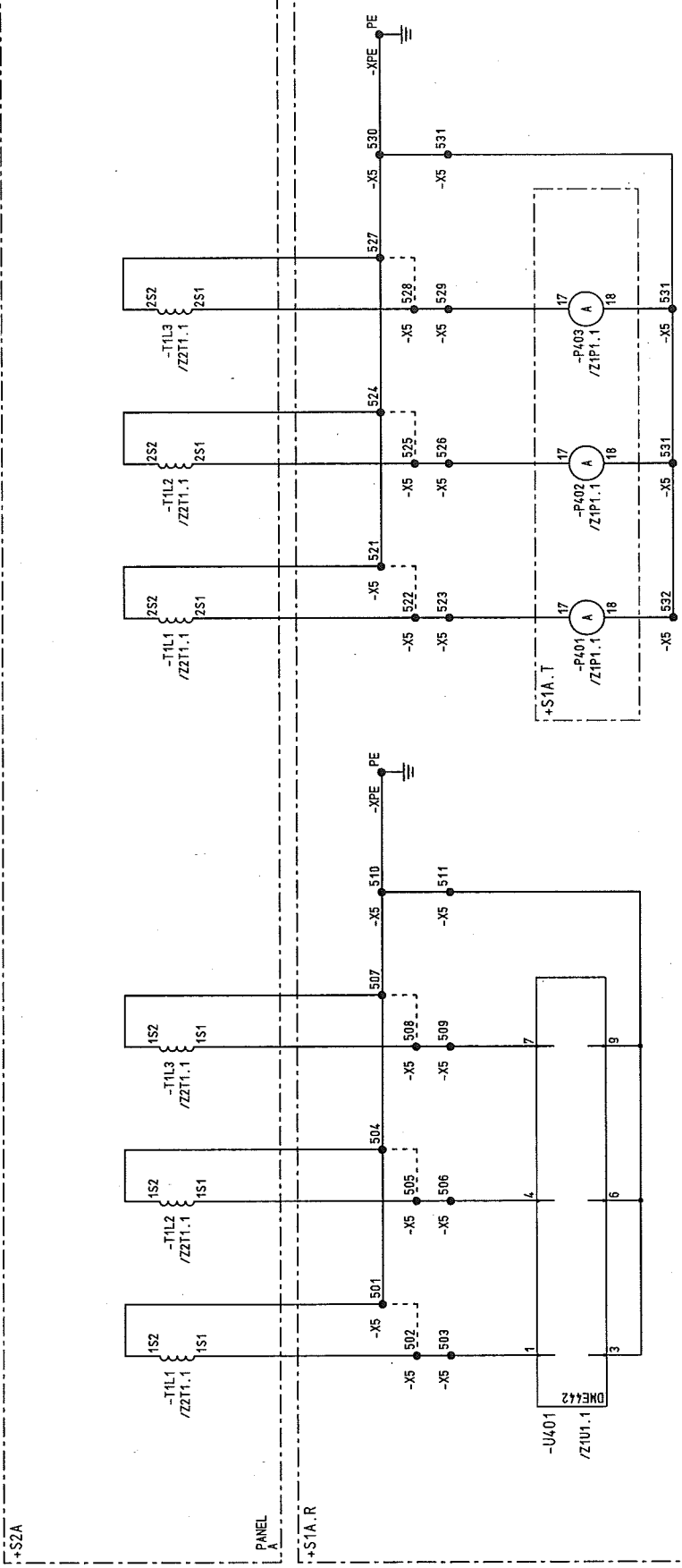
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NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	02	D009781.02. 602-3. AHA	99Sh.	



METERING

CURRENT

L1 L2 L3 N



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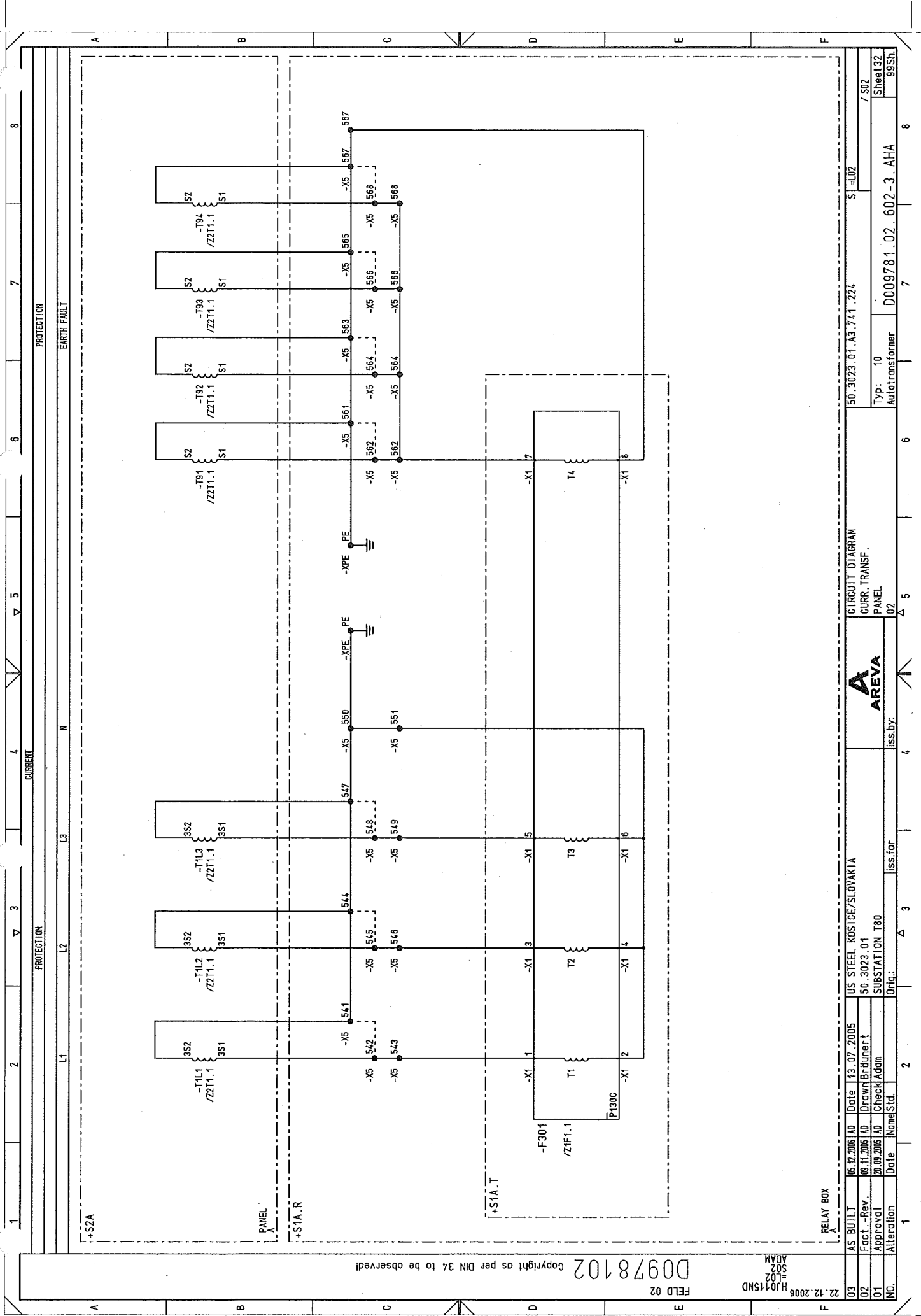
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FELD 02

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RELAY BOX

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						Iss. by:			
						Panel			
						Curr. Transf.			
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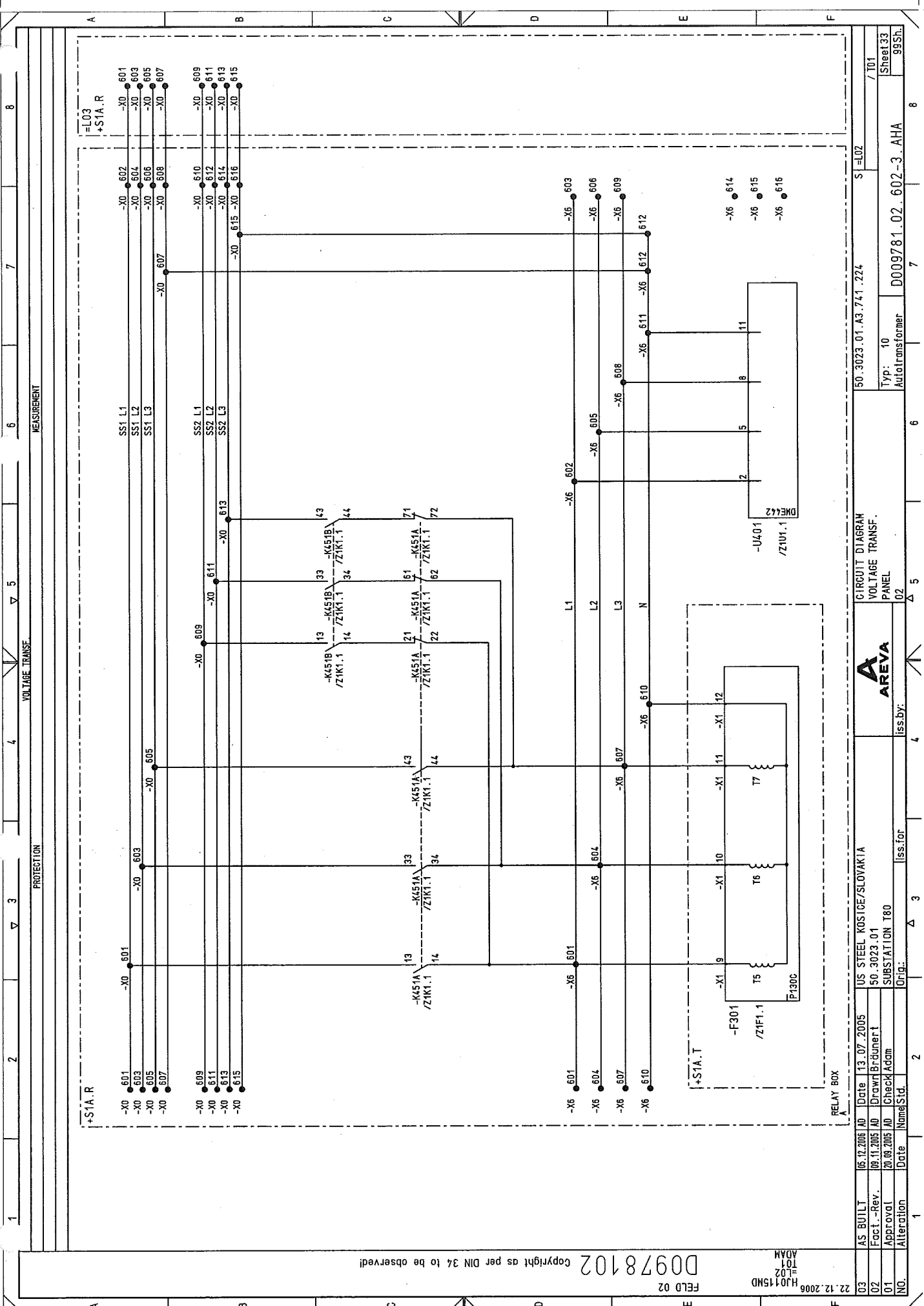
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FIELD 02

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RELAY BOX

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01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80			
INC.	Alteration	Date	Name	Std.	Iss.by:	Iss.for	Typ: 10	Sheet 32
							Autotransformer	99Sh.
							D009781.02.602-3.AHA	



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Approval		Date	09.11.2005	Drawn	Brüner T	Typ: 10			
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AS BUILT		Date	13.07.2005	Iss. for	Iss. by:	50.3023.01.A3.741.224			
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02		Fact. -Rev.	09.11.2005	AD	Drawn	Brüner T	S = 102		
01		Approval	20.09.2005	AD	Check	Adm	/ 101		
00		Alteration	05.12.2005	AD	Date	13.07.2005	Sheet 33		
							99SL		

CIRCUIT DIAGRAM  
VOLTAGE TRANSF.  
PANEL  
02



US STEEL XOSICE/SLOVAKIA  
50.3023.01

RELAY BOX

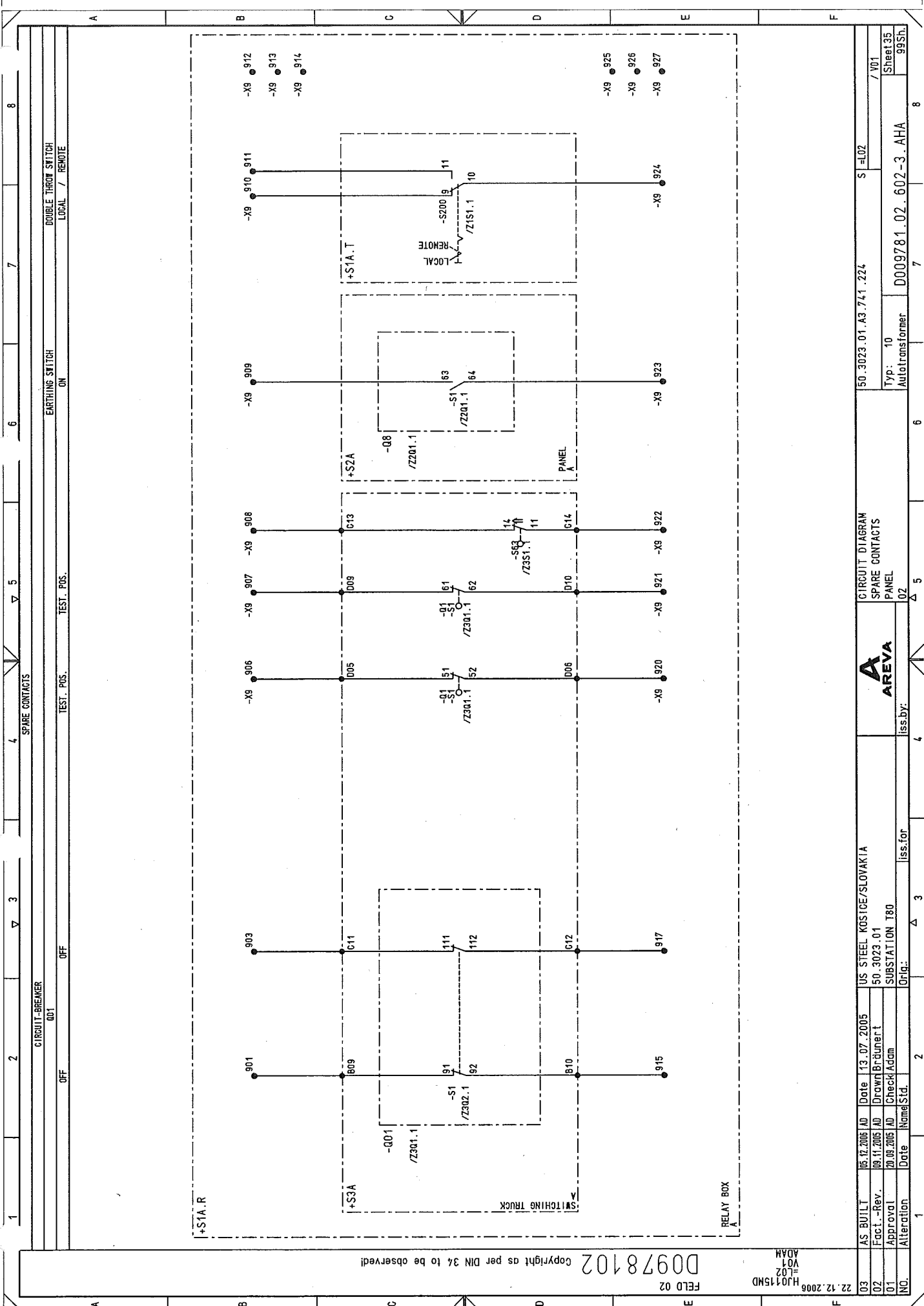
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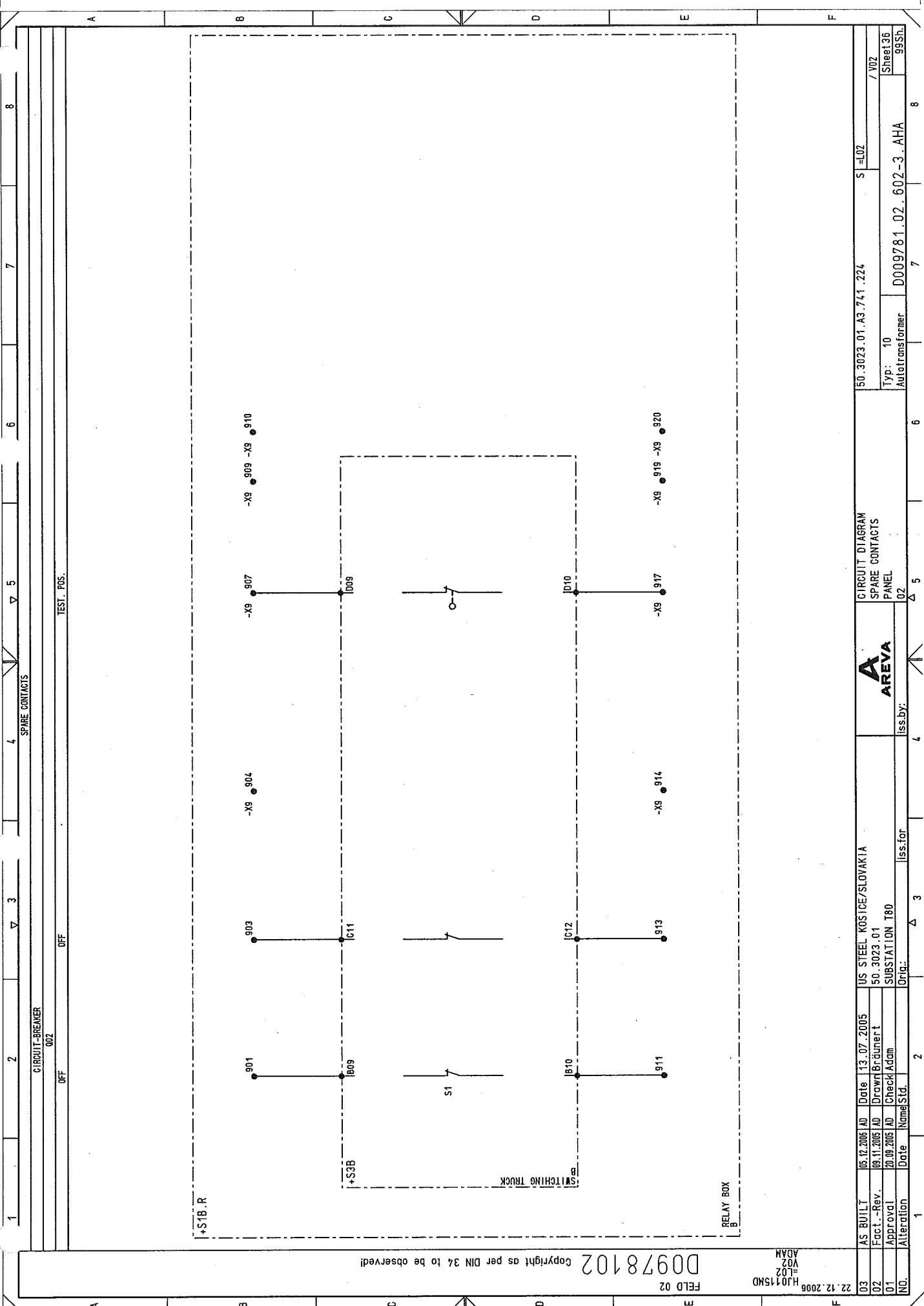
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CIRCUIT-BREAKER				SPARE CONTACTS			
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02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50.3023.01	SPARE CONTACTS			
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	02	D009781.02.602-3.AHA	99Sh.	8

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22.12.2006  
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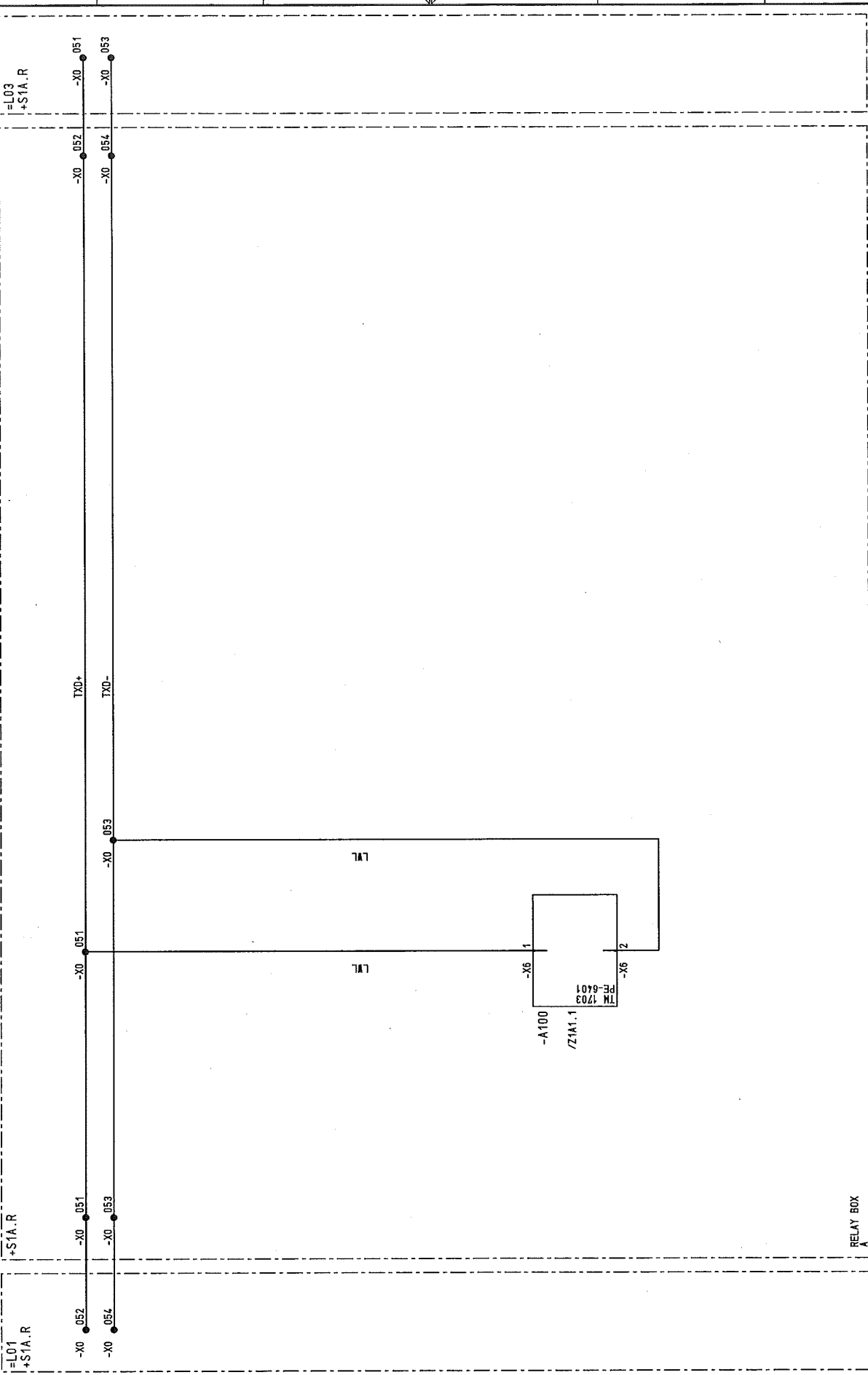


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03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.224	S=L02	/X01
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01	Approval	20.06.2005	AD	Checked	Adam	SUBSTATION T80	PANEL			Sheet 37
N0	Alteration			Date		Orig.	Iss.far	Iss.by:	Autotransformer	99Sh.

D009781.02.602-3.AHA

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peripheral control module  
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IN-BUS

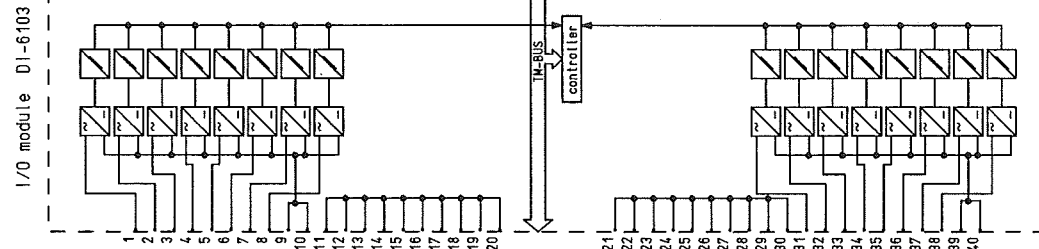
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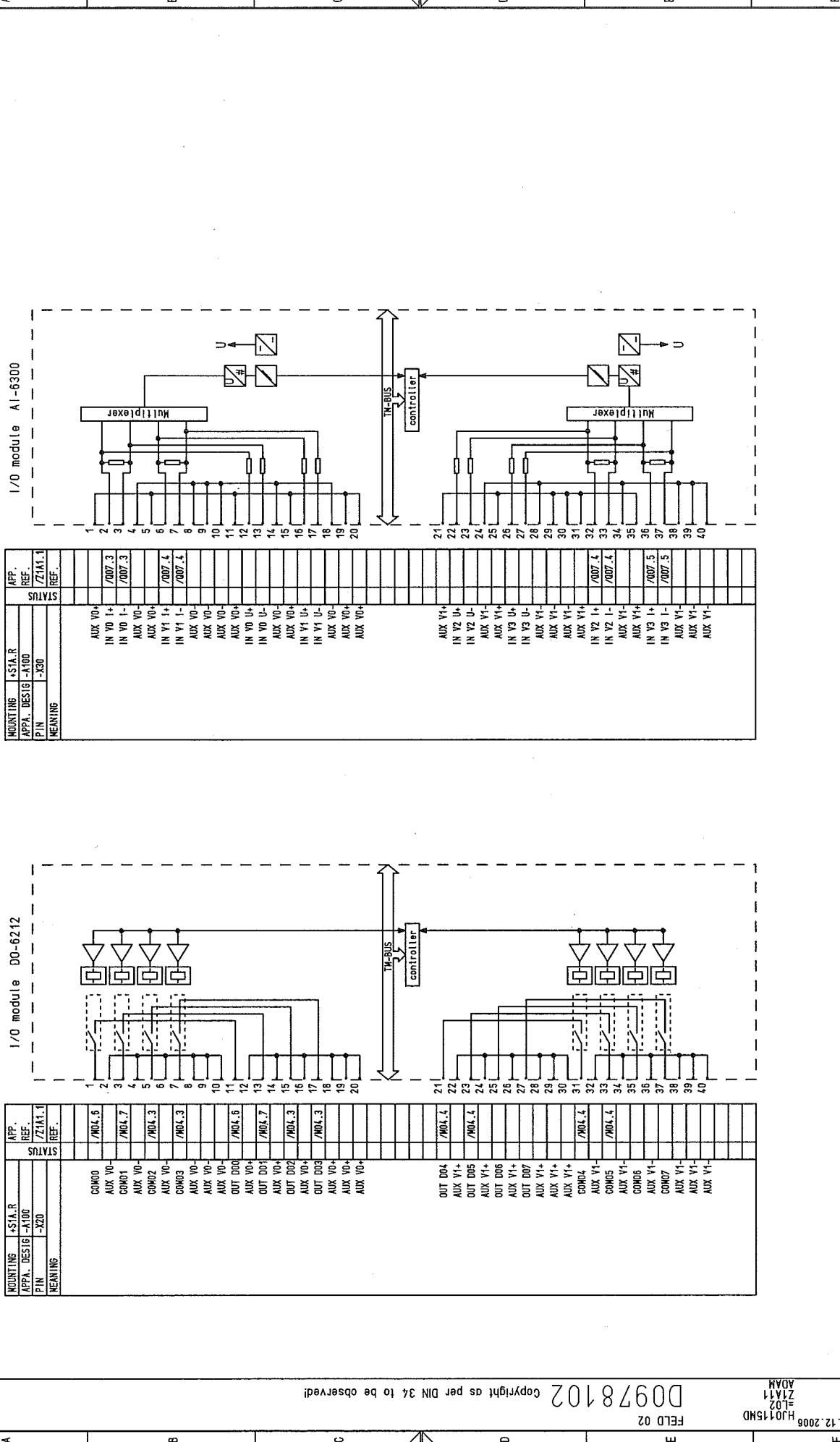
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02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner1	50.3023.01		PANEL		Type: 10	Sheet 39	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		02		Auto transformer	D009781_02_602-3_AHA	
NO.	Alteration	Date	Name	Sld.	Alteration	Orig.:	Iss. for	Iss. by:				

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FELD 02

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MOUNTING +SIA.T APPA. DESIG -F301 PIN -X1 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X1 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X3 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X3 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X7 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X7 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X33 MEANING		MOUNTING +SIA.T APPA. DESIG -F301 PIN -X33 MEANING	
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1		2													

03	AS BUILT	05.12.2006 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.224	S	=D2	/ ZIF10
02	Fact.-Rev.	06.11.2005 AD	Drawn	Brüner	50.3023.01	PANEL	Typ: 10			Sheet 2
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION 180	02	Autotransformer			99Sh.
NO.	Alteration	Date	Name	Std.	Orig:	Iss. for	Iss. by:			

03	AS BUILT	05.12.2006 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.224	S	=D2	/ ZIF10
02	Fact.-Rev.	06.11.2005 AD	Drawn	Brüner	50.3023.01	PANEL	Typ: 10			Sheet 2
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION 180	02	Autotransformer			99Sh.
NO.	Alteration	Date	Name	Std.	Orig:	Iss. for	Iss. by:			

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03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT		50.3023.01.A3.741..224		S=L02	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner t	50.3023.01						/ ZIF11	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL		Typ: 10		Sheet 43	
NO.	Alteration	Date	Name	Std.		Orig:	iss.for	iss.by:	Autotransformer		D009781.02..602-3.AHA		99Sh.
									02		7	8	

FIELD 02  
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ADAM

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1		2		3		4		5		6		7		8	
SYMBOL		DESCRIPTION, DESIGN, TECHNICAL DATA		MANUFACTURER, TYPE, ORDERING DATA		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		REMARK			
1		2		3		4		5		6		7		8	
2		3		4		5		6		7		8		9	
ARC DETECTOR		MANUF.: AREVA		TYPE ILIS		DC 24V		OFF		DC		FAULT		µC	
DC 24V		PO NO.: C66672		TYPE		ORDER NO.		SENSOR 1		SENSOR 2		SENSOR 3		SENSOR 4	
APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER		/NO2.3		/NO1.4		/NO2.5		/NO1.2	
ARC DETECTOR				*S1A.R		-F310		/NO2.4		/NO1.4		/NO2.5		/NO1.5	
ARC DETECTOR				*S1B.R		-F310		/NO2.6		/NO1.6		/NO2.7		/NO1.7	

03		AS BUILT		05.12.2008 AD		Date		13.07.2005		US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.224		S=L02		/ZIF2	
02		Fact.-Rev.		09.11.2005 AD		Drawn		Brüner		50.3023.01		PANEL		Typ: 10		Autotransformer		Sheet 44	
01		Approval		20.08.2005 AD		Check		Adam		SUBSTATION T80		02		D009781.02.602-3.AHA		99Sh.			
NO.		Alteration		Date		Name		Std.		Orig.		Iss. for		Iss. by:					



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03	AS BUILT	06.12.2005	AD	Date	13. 07. 2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		
02	Fact. -Rev.	09.11.2005	AD	DRAWN	Bräunert	50_3023_01		50_3023_01.A3.7/1.224	S=L02	7 ZIK1
07	Approval	20.09.2005	AD	Checked	Adom	SUBSTATION T80		PANEL	Type: 10	Sheet 46
01	Alteration			Name	Std.			02	Atrial transformer	99Sh.
NO.				Date		iss. for	iss.by:	D009781.02.602-3..AHA		
						Orig.:				

03	AS BUILT	06.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50_3023.01.A3.741_224		S -L02
	Fact.-Rev.	08.11.2005	AD	Drawn	Brünnert	50_3023.01					
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Type: 10	Sheet 47	7 ZK2
NO.	Alteration	Date	Name	Sid.	Orig.	Iss. for	Iss. by:	02	Autotransformer	D009781.02.602-3.AHA	995h.

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1		2		3		4		5		6		7		8	
BLOCK-TITLE		DESCRIPTION, DESIGN, TECHNICAL DATA		SETTINGS		MANUFACTURER, TYPE, ORDERING DATA		APPA. DESIG.		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT		WITH REFERENCES TO DETAILS	

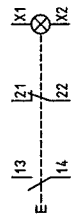
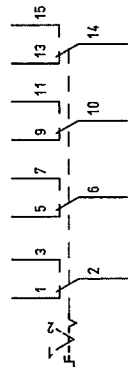
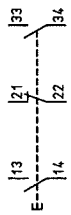
AS BUILT	05.12.2005	AD	13.07.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01
Fact.-Rev.	09.11.2005	AD	Drawn/Brüner t		
Approval	20.09.2005	AD	Check/Adam	SUBSTATION T80	
Alteration	Date	Name/Sid.	Oriq.	Iss.for	Iss.by:

AREVA	PANEL	02	Iss.by:	Iss.for	Iss.by:
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LIST OF EQUIPMENT	150.3023.01.A3.741.224	S=L02	Typ: 10	Autotransformer	D009781.02.602-3.AHA
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Sheet 19	99Sh.	8
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1	2	3	4	5	6	7	8
Stück- TIT	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APP. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	PB PUSH-BUTTON OFF RED-AND-WHITE CIRCLE	MANUF.: Schneider Electric PO NO.: RED-AND-WHITE CIRCLE	TYPE HARMONY Style 5				
1	SWITCHING CONTACTS : 25, 10	CONTACT SEQUENCE : TYP	ORDER NO				
1	RED-AND-WHITE CIRCLE S071457	ZBE-A1432	ZBE-A1432				
1	FIXING FLANGE S071460	ZBE-A2009	ZBE-A2009				
1	AUXILIARY SWITCH (NO) S071461	1S (NO)	ZBE-101				
1	AUXILIARY SWITCH (NC) S071462	10 (NC)	ZBE-102				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CIRCUIT-BREAKER	OFF	+S1A.T	-S01A			
	CIRCUIT-BREAKER	OFF	+S1A.T	-S02A			
1	SWITCH MANUF.: SONTHEIMER PO NO.: WS4/82M/NS	TYPE WS4/82M/NS-T1.0511+T					
1	INSCRIPTION: 1=LOCAL 2=REMOTE						
	SWITCHING CONTACTS : 4	POSITIONS : 2	ORDER NO				
	TECHNICAL COMPONENTS	TYP					
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	DOUBLE THROW SWITCH LOCAL/OFF/REMOTE		+S1A.T	-S200			
1	MANUF.: PO NO.:	TYPE					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
			+S1A.T	-S301			



NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by	PANEL	LIST OF EQUIPMENT	50.3023.01.A3.741.224	S	L02	99Sh
03	AS BUILT	06.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA							
02	Fact. -Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01							
01	Approval	20.03.2005	AD	Check	Adam	SUBSTATION T80							

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FIELD 02

NO. 00978102

Sheet 150

99Sh

009781.02.602-3.AHA

AutoTransformer

Typ: 10

S=L02

50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

AREVA

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Iss. for

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PANEL 02

AutoTransformer

Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

AREVA

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

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PANEL 02

AutoTransformer

Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

AREVA

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

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PANEL 02

AutoTransformer

Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

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US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

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PANEL 02

AutoTransformer

Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

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AutoTransformer

Typ: 10

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LIST OF EQUIPMENT

PANEL 02

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50.3023.01

SUBSTATION T80

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PANEL 02

AutoTransformer

Typ: 10

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LIST OF EQUIPMENT

PANEL 02

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US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

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PANEL 02

AutoTransformer

Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

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US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

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PANEL 02

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Typ: 10

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50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

AREVA

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Iss. for

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PANEL 02

AutoTransformer

Typ: 10

S=L02

50.3023.01.A3.741.224

LIST OF EQUIPMENT

PANEL 02

AREVA

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Iss. for

Iss. by

PANEL 02

AutoTransformer

Typ:

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT		50_3023.01.A3.741.224		S=L02
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023.01		PANEL 02		Type: 10	Autotransformer	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	iss.by:		iss.for		0009781.02.602-3.AHA	
NO.	Alteration	Date	Name	Std.	Orig.	iss.by:	iss.for		Autotransformer		99Sh.	
0009781.02.602-3.AHA												

03	AS BUILT	06.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	<div></div> <b>AREVA</b>	LIST OF EQUIPMENT		50.3023.01.A3.741.224		S=L02	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01							
01	Approval	20.09.2005	AD	Checked	Adam	SUBSTATION T80		PANEL		Type: 10		Sheet 52	
								02		Autotransformer		99Sh.	
NO.	Alteration	Date	Name	Std.	Iss. for	iss.by:		02		D009781.02.602-3.AHA		7	
							Δ 3		Δ 5		8		



1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)					
INDICATOR	MANUF.: AREVA Sachsenwerk PO NO.: VOLT	TYPE IVIS INFORMATION SYSTEM					
TECHNICAL COMPONENTS							
ORDER NO.							
TYP							
MOUNTING							
+SSA							
BTM IDENTIFIER							
-P100							
APPLICATION							
IVIS							
REMARK							

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22.12.2006

AS BUILT 05.12.2005 AD Date 13.07.2005 US STEEL KOSICE/SLOVAKIA LIST OF EQUIPMENT 150.3023.01.A3.741.224 S=L02 / Z2P1

Fact.-Rev. 09.11.2005 AD Drawn Bräuner t 50.3023.01 PANEL 02 Typ: 10 Autotransformer D009781.02.602-3.AHA Sheet 53 / Z2P1

Approval 20.09.2005 AD Check Adam SUBSTATION T80 Orig.: Iss.by:

Alteration 1 Date Name Std. 2 3 4 5 6 7 8

1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS			
1	AREVA	TYPE KGE 80/24-2					
TECHNICAL COMPONENTS			<div> <div> <div>TYPE</div> <div>ORDER NO</div> </div> </div>				
APPLICATION			<div> <div>SETTINGS</div> <div>MOUNTING</div> <div>BTM IDENTIFIER</div> </div>				
EARTHING SWITCH			<div> <div>452A</div> <div>-Q8</div> </div>				

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FIELD 02

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2008.12.12

003	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.224	S=L02	
002	Fact.-Rev.	09.11.2005	AD	Drawn	Bräuner	50.3023.01						
001	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Type: 10			
NO.	Alteration	Date	Name	Sid.	Orig.	iss.for	iss.by:	02	Autotransformer	D009781.02.602-3.AHA	99Sh.	

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FELD 02  
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1	2	3	4	5	6	7	8	
Stock- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				REMARK
3	CURR. TRANSF. 1000/1/1/1A	MANUF.: AEG PO NO.:	TYPE CT12					
TECHNICAL COMPONENTS		TYP	ORDER NO					
APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER				
CURR. TRANSF. L1		+S2A		-T1.1				
CURR. TRANSF. L2		+S2A		-T1.2				
CURR. TRANSF. L3		+S2A		-T1.3				
4	CABLE-TYPE CT 60/1A	MANUF.: AEG PO NO.:	TYPE RKT 250/160					
TECHNICAL COMPONENTS		TYP	ORDER NO					
APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER				
CABLE-TYPE CT		+S2A		-T91				
CABLE-TYPE CT		+S2A		-T92				
CABLE-TYPE CT		+S2A		-T93				
CABLE-TYPE CT		+S2A		-T94				

P1 P2

3S2 3S1 2S2 2S1 1S2 1S1

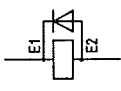
P1 P2

1S1 1S2

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.224	S=L02	/Z211
02	Fact.-Rev.	09.11.2005 AD	Drawn	Brüderert	50.3023.01				
01	Approval	20.05.2005 AD	Check	Adam	SUBSTATION T80	PANEL			Sheet 56
NO.	Alteration	Date	Name	Std.	Orig.	Iss. by:	Iss. for	Typ: 10	99StL
								Autotransformer	D009781.02.602-3.AHA

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FELD 02  
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1	2	3	4	5	6	7	8	
1	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)			REMARK
1	SPERMAGNET SPERMAGNET AM ERDER	MANUF.: AREVA PO NO.:	TYPE 220VDC					
TECHNICAL COMPONENTS		TYP	ORDER NO					
APPLICATION RELEASE		SETTINGS EARTHING SWITCH	MOUNTING +SZA	BTM IDENTIFIER -Y8				

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT		50.3023.01.A3.741.224	S=L02	/Z2Y1
02	Fact.-Rev.	09.11.2005 AD	Drawn	BrGuernt	50.3023.01					
01	Approval	20.05.2005 AD	Check	Adam	SUBSTATION T80	PANEL		Typ: 10	D009781.02.602-3.AHA	Sheet 57
NO.	Alteration	Date	Name	Std.	Orig.	ISS. FOR		Autotransformer	99SL	99SL

1	2	3	4	5	6	7	8
<b>DESCRIPTION, DESIGN, TECHNICAL DATA</b> APPLICATION: <b>CIRCUIT-BREAKER</b>		<b>MANUFACTURER, TYPE, ORDERING DATA</b> MANUFACTURER: <b>AREVA</b>		<b>REFERENCE TO INDIVIDUAL TREATMENT</b> (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		<b>WITH REFERENCES TO DETAILS</b> (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	
1 CIRCUIT-BREAKER MANUF.: AREVA PO NO.: ECA 12-50-12-21		TYPE: ECA 12-50-12-21					
<b>TECHNICAL COMPONENTS</b> APPLICATION: CIRCUIT-BREAKER SETTINGS: MOUNTING: +S3A BTM IDENTIFIER: -001							
1 AUXILIARY SWITCH 10_P0L		MANUF.: AREVA PO NO.:		TYPE:			
<b>TECHNICAL COMPONENTS</b> APPLICATION: AUXILIARY SWITCH SETTINGS: MOUNTING: +S3A BTM IDENTIFIER: -01							

REFERENCES FOR GROUP REPRESENTATION IN CIRCUIT DIAGRAM

REFERENCES TO SEPARATE DOCUMENTS WITH DETAILS OF REPRESENTATION

REFERENCES FOR REPRESENTATION OF APPLIANCE CONNECTIONS

03	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.224	S=102
02	Fact.-Rev.	09.11.2005 AD	Drawn BrGuerert	50.3023.01			/Z301
01	Approval	20.09.2005 AD	Check Adam	SUBSTATION T80	PANEL		Sheet 18
NO.	Alteration	Date	None/Std.	Orig.	Iss. for	Iss. by:	99Sh.

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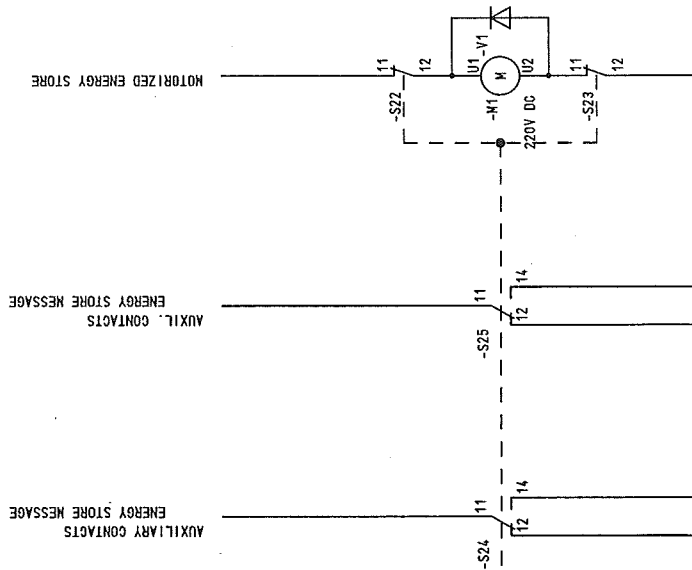
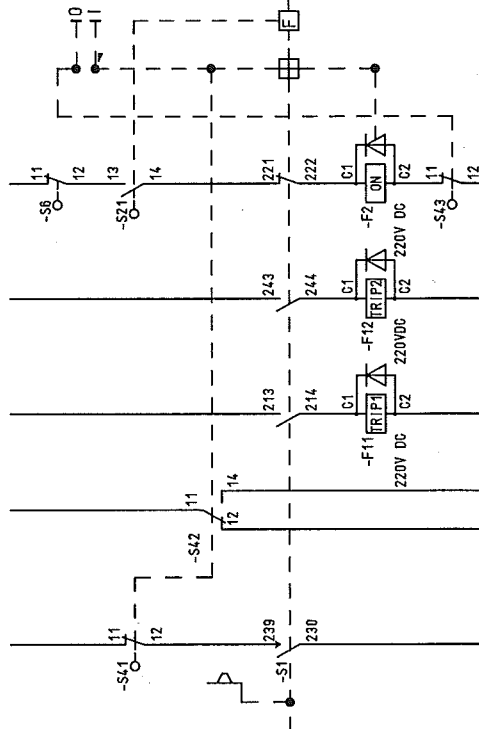
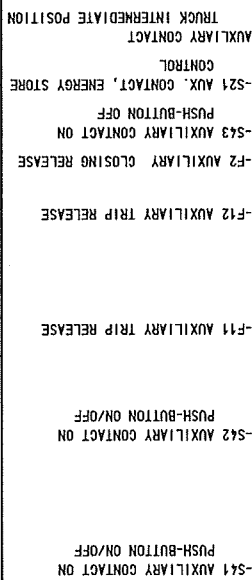
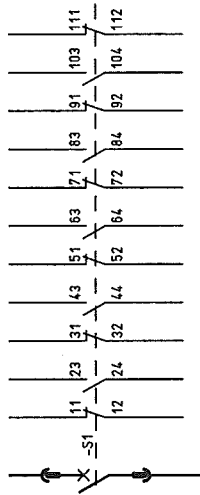
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033	AS BUILT	06.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT		50_3023_01_A3_741_224		S = L02	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023_01			PANEL		Type: 10		Sheet60
J1	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80			02		Autotransformer		99Stk.
NO.	Alteration	Date	Name	Sld.		Orig.:		iss. by:			D009781.02_602-3_AHA		



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002	Fact. - Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023_01							*SIA.R	
001	Approval	20.09.2005	AD	Check	Adm									
	Alteration	Date	Name	Std.										
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									PANEL		Type: 10		Sheet 64	
									02		Autotransformer		99Sh.	
											D009781.02_602-3_AHA			

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010	Alteration			Date		Orig:	iss.for	02	Autotransformer	99Sh.
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CABLE													WIRE USED SHEET/STATE													CABLE-TYPE SECTION													CORES													-ROUTE													CIRCUIT DIAGRAM													CABLE MATERIAL													Ø													COLOR													TERM. TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	<div><div><div>A</div><div>AREVA</div></div></div>	TERMINAL DIAGRAM	
01	Fact. - Rev.	09.11.2005	AD	Drawn	Bräuner	50.3023.01		50.3023.01.A3.741.224	
02	Approval	20.09.2005	AD	Checked	Adam	SUBSTATION 180	PANEL 02	Type: 10	
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for		Autotransformer	
							Iss. by:	D009781.02.602-3.AHA 99Sh.	
								V=L02 +S1A.R	

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01.A3.741.224	V =L02	/ K90
04	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023_01				+51A.R	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Type: 10		
NO.	Alteration	Date	Name	Std.		Iss. for	Iss. by:	02	Autotransformer	D009781.02_602-3_AHA	99sh.



03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50.3023.01.A3.741.224		V=L02
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünert	50.3023.01		PANEL		Type: 10		/KPE
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		iss.by:		Autotransformer		Sheet/77
NO.	Alteration	Date	Name	Sid.	Orig.	iss.for	iss.by:		02		D009781.02.602-3.AHA	

[illegible]

## CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
600	DBF+ 1 1.5MM2	H07V-K SW	-X0	5 -K203	13 -K203	33			
601	DC220V.L+ 2 2.5MM2	H07V-K SW	-X0	12 -F102	1 -F103	1 -F121	1		
601	DC220V.L- 2 2.5MM2	H07V-K SW	-X0	14 -F102	3 -F103	3 -F121	3		
602	1 1.5MM2	H07V-K SW		-K451A	81 -K451B	54			
602	1 1.5MM2	H07V-K SW	-X1	131 -K451A	54 -K451A	82			
M01	102L- 1 1.5MM2	H07V-K SW	-X1	122 -K01E	34 -K201	A2			
M01	1 1.5MM2	H07V-K SW	-X1	135 -K01A	14 -K201	14			
M01	1 1.5MM2	H07V-K SW	-X1	140 -K01E	14 -K201	13 -K201	21		
M02	102L- 1 1.5MM2	H07V-K SW	-X1	125 -K02E	34 -K202	A2 -K301	A2 -K302		
M02	1 1.5MM2	H07V-K SW	-X1	155 -K02A	14 -K202	14			
M02	1 1.5MM2	H07V-K SW	-X1	160 -K02E	14 -K202	13 -K202	21		
M03	102L- 1 1.5MM2	H07V-K SW	-X1	130 -K01A	A2 -K01E	A2 -K02A	A2 -K02E	A2 -K71	A2 -K72
M04	1 1.5MM2	H07V-K SW		-K451A	A2 -K451B	A2			
M04	1 1.5MM2	H07V-K SW		-A100 -X20	5 -K01A	A1			
M04	102L+ 1 1.5MM2	H07V-K SW	-X1	-A100 -X20	21 -K02A	A1			
M04	1 1.5MM2	H07V-K SW	-X1	120 -A100 -X20	15 -A100 -X20	17 -A100 -X20	31 -A100 -X20	33	
M04	1 1.5MM2	H07V-K SW	-X8	881 -A100 -X20	11 -A100 -X20	13			
M05	102L+ 1 1.5MM2	H07V-K SW	-X1	117 -F310	11 -K301	63			
M05	1 1.5MM2	H07V-K SW	-X1	148 -F310	12 -K301	64			
P02	1 1.5MM2	H07V-K SW	-X9	904 -XPE	1 -X01	B11			

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	CROSS CONNECT. LIST	150.3023.01.A3.741.224	V=L02	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner	50.3023.01		RELAY BOX		+S1A.R	/ Q10
01	Approval	20.09.2005	AD	Check	Adm	SUBSTATION T80		PANEL		Typ: 10	Sheet78
NO.	Alteration	Date	Name	Std.	2	Iss. for	Iss. by:	02	Autotransformer	D009781.02.602-3.AHA	99Sh.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
P02	1 1.5MM2	H07V-K SW	-X9	2 -X01	B12				
004	03L+ 1 1.5MM2	H07V-K SW	-X8	12 -F121	12				
004	1 1.5MM2	H07V-K SW	-X8	11 -F121	11				
006	03L+ 1 1.5MM2	H07V-K SW	-X8	12 -F103	12 -F203	12 -F310	9 -F310	13 -K100	19
	----->			43 -K302	33				
006	1 1.5MM2	H07V-K SW	-X8	11 -F103	11 -F203	11 -K302	34		
007	1 1.5MM2	H07V-K SW		2 -U401	17				
007	1 1.5MM2	H07V-K SW		3 -U401	18				
007	1 1.5MM2	H07V-K SW		6 -U401	15				
007	1 1.5MM2	H07V-K SW		7 -U401	16				
007	1 1.5MM2	H07V-K SW		32 -U401	19				
007	1 1.5MM2	H07V-K SW		33 -U401	20				
007	1 1.5MM2	H07V-K SW		36 -U401	21				
007	1 1.5MM2	H07V-K SW		37 -U401	22				
008	102L+ 1 1.5MM2	H07V-K SW	-X4	43 -K02E	43				
008	1 1.5MM2	H07V-K SW	-X8	44 -K02E	44				
R01	1 1.5MM2	H07V-K SW		22 -K01E	21				
R01	1 1.5MM2	H07V-K SW		22 -K02E	21				
R01	1 1.5MM2	H07V-K SW	-X4	22 -F103	22 -F111	22 -F203	22		
R01	1 1.5MM2	H07V-K SW	-X4	21 -F103	21 -F121	21 -F203	21		

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FELD 02

22.12.2006

AS BUILT

05.12.2005

AD

Date

13.07.2005

US STEEL KOSICE/SLOVAKIA

CROSS CONNECT. LIST

RELAY BOX

50.3023.01.A3.741.224

V=I02

Fact.-Rev.

09.11.2005

AD

Drawn

Brüner

50.3023.01

Approval

20.09.2005

AD

Check

Adom

SUBSTATION T80

Panel

02

Typ: 10

Autotransformer

D009781.02.602-3.AHA

Sheet79

99Sh.

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST	50.3023.01.A3.741.224	V=102	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50.3023.01	RELAY BOX		+S1A.R	7
01	Approval	20.09.2005	AD	Check	Adm	SUBSTATION T80	PANEL		Typ: 10	99Sh.
NO.	Alteration	Date	Names	Std.	Orig.	Iss. for	Iss. by:		Autotransformer	009781.02.602-3.AHA

## CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
S01	2 2.5MM2	H07V-K SW	-X5 511 -UJ01	3 -UJ01	6 -UJ01	9			
T01	1 1.5MM2	H07V-K SW	-K451A	21 -K451B	14				
T01	1 1.5MM2	H07V-K SW	-K451A	61 -K451B	34				
T01	1 1.5MM2	H07V-K SW	-K451A	71 -K451B	44				
T01	1 1.5MM2	H07V-K SW	-X6 601 -K451A	14 -K451A	22				
T01	L2 1 1.5MM2	H07V-K SW	-X6 604 -K451A	34 -K451A	62				
T01	L3 1 1.5MM2	H07V-K SW	-X6 607 -K451A	44 -K451A	72				

					CROSS CONNECT - LIST	V =L02 +SIA.R	/ Q12
03	AS BUILT	05.12.2006	AU	Date	US STEEL KOSICE/SLOVAKIA	50_3023.01_A3-741_224	
02	Fact.-Rev.	09.11.2005	AU	DrawnBrünert	50_3023.01	PANEL BOX	
01	Approval	20.09.2005	AU	Check Adam	SUBSTATION T80	RAY	Type: 10
00	Alteration			NameSid	Oria:	Autotransformer	Sheet80 gash.
				Date		iss.by:	
						iss.for	

## CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed! 00978102

HJ0115MD  
=LOZ+S1A  
Q15  
ADAM

303	AS BUILT	06.12.2006	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA		CROSS CONNECT. LIST	50_3023.01.A3.741.224	V -L02 +SIA.T	/ Q15
302	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023.01					
301	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80					
300	Alteration	Date	Name	Sig.	Iss. for	iss. by:	02	Type: 10 Autotransformer	D009781_02_602-3_AHA	Sheet 184 99Sh.	

# TERMINAL DIA. , 64-POLE , CIRCUIT-BREAKER SOCKET

+S1A.R -X01  
 CABLE MATERIAL H05V-K 1.0mm2 SW

+S1A.R -X01											
CABLE MATERIAL H05V-K 1.0mm2 SW											
A				B				C			
+											+
1	A01	-X1 /001.2 H05V-K 1.0MM2 SW	101	-X8 /002.4 H05V-K 1.0MM2 SW	822	501	-X1 /001.5 H05V-K 1.0MM2 SW	147	-X3 /001.3 H05V-K 1.0MM2 SW	325	1
2	A02	-X1 /001.2 H05V-K 1.0MM2 SW	102	-X8 /002.2 H05V-K 1.0MM2 SW	866	502	-X1 /001.5 H05V-K 1.0MM2 SW	122	-X8 /002.5 H05V-K 1.0MM2 SW	803	2
3	A03	-X1 /001.6 H05V-K 1.0MM2 SW	136	-X8 /002.2 H05V-K 1.0MM2 SW	873	503	-X8 /002.5 H05V-K 1.0MM2 SW		-X8 /002.5 H05V-K 1.0MM2 SW	823	3
4	A04	-X1 /001.6 H05V-K 1.0MM2 SW	123	-X8 /002.2 H05V-K 1.0MM2 SW	874	504	-X8 /002.5 H05V-K 1.0MM2 SW		-X8 /002.5 H05V-K 1.0MM2 SW	825	4
5	A05	-X1 /001.7 H05V-K 1.0MM2 SW	138	-X0 /001.3 H05V-K 1.0MM2 SW	5	505	-X0 /001.2 H05V-K 1.0MM2 SW	025	-X9 /001.4 H05V-K 1.0MM2 SW	906	5
6	A06	-X1 /001.7 H05V-K 1.0MM2 SW	142	-X0 /001.3 H05V-K 1.0MM2 SW	7	506	-X0 /001.2 H05V-K 1.0MM2 SW	027	-X9 /001.4 H05V-K 1.0MM2 SW	920	6
7	A07	-X8 /004.3 H05V-K 1.0MM2 SW	809	-X1 /003.5 H05V-K 1.0MM2 SW	116	507	-X8 /008.4 H05V-K 1.0MM2 SW		-X8 /008.4 H05V-K 1.0MM2 SW	869	7
8	A08	-X8 /004.3 H05V-K 1.0MM2 SW	838	-X1 /003.5 H05V-K 1.0MM2 SW	173	508	-X8 /008.4 H05V-K 1.0MM2 SW		-X8 /008.4 H05V-K 1.0MM2 SW	877	8
9	A09	-X8 /004.3 H05V-K 1.0MM2 SW	840	-X9 /001.2 H05V-K 1.0MM2 SW	901	509	-X9 /001.2 H05V-K 1.0MM2 SW	902	-X9 /001.5 H05V-K 1.0MM2 SW	907	9
10	A10	-X4 /001.3 H05V-K 1.0MM2 SW	410	-X9 /001.2 H05V-K 1.0MM2 SW	915	510	-X9 /001.2 H05V-K 1.0MM2 SW	916	-X9 /001.5 H05V-K 1.0MM2 SW	921	10
11	A11	-X4 /001.3 H05V-K 1.0MM2 SW	413	-X9 /001.4 H05V-K 1.0MM2 SW	904	511	-X9 /001.3 H05V-K 1.0MM2 SW	903	-X9 /001.4 H05V-K 1.0MM2 SW	905	11
12	A12	-X3 /001.2 H05V-K 1.0MM2 SW	302	-X9 /001.4 H05V-K 1.0MM2 SW	918	512	-X9 /001.3 H05V-K 1.0MM2 SW	917	-X9 /001.4 H05V-K 1.0MM2 SW	919	12
13	A13	-X3 /001.2 H05V-K 1.0MM2 SW	321	-X8 /002.3 H05V-K 1.0MM2 SW	868	513	-X9 /001.5 H05V-K 1.0MM2 SW	908	-X0 /001.4 H05V-K 1.0MM2 SW	930	13
14	A14	-X3 /001.2 H05V-K 1.0MM2 SW	322	-X8 /002.3 H05V-K 1.0MM2 SW	876	514	-X9 /001.5 H05V-K 1.0MM2 SW	922	-X0 /001.4 H05V-K 1.0MM2 SW	923	14
15	A15	-X8 /002.3 H05V-K 1.0MM2 SW	802	-X8 /002.3 H05V-K 1.0MM2 SW	867	515	-X3 /001.3 H05V-K 1.0MM2 SW	303	-X0 /001.4 H05V-K 1.0MM2 SW		15
16	A16	-X8 /002.3 H05V-K 1.0MM2 SW	821	-X8 /002.3 H05V-K 1.0MM2 SW	875	516	-X3 /001.3 H05V-K 1.0MM2 SW	323	-X0 /001.4 H05V-K 1.0MM2 SW		16
+											

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.224	V=02	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner t	50.3023.01	CIRCUIT-BREAKER		+S1A.R	/S01
01	Approval	20.09.2005	AD	Check	Adom	SUBSTATION T80	PANEL	Typ: 10	Autotransformer	Sheet 81
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:			99SL

Subject to technical modifications!  
 Copyright as per DIN 34 to be observed!

FIELD 02  
 HJ0115ND  
 50.3023.01A  
 ADAM

00978102



1		2		3		4		5		6		7		8									
ASSEMBLY/INSTRUCT.						CABLE MATERIAL						TERM. TYPE											
						STANDARD: H07V-K 1.5MM2						STANDARD:											
						BK						-X04											
RÜCK- REF.		LTG (ø IN MM2) CABLE		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG.		PIN		LTG (ø IN MM2) CABLE		CORE		REMARK	
/M02.5						-X1		148				C09		+S1B.R -X1		110							
/M02.5						-X1		126		102L-		C10		+S1B.R -X1		111							
/C00ST.2												C11											
/C00ST.2												C12											
/C00ST.2												C13											
/C00ST.2												C14											
/C00ST.2												C15											
/C00ST.2												C16											
/M01.5						-X3		305		102L+		D01		+S1B.R -X3		301							
/M01.5						-X3		326				D02		+S1B.R -X3		303							
/M01.5						-X3		327				D03		+S1B.R -X3		304							
/M01.5						-X3		328				D04		+S1B.R -X3		305							
/M01.6						-X3		330				D05		+S1B.R -X3		306							
/M03.2						-X8		806		03L+		D06		+S1B.R -X8		801							
/M03.2						-X8		828				D07		+S1B.R -X8		805							
/M03.3						-X8		829				D08		+S1B.R -X8		806							
/M03.4						-X8		830				D09		+S1B.R -X8		807							
/M03.4						-X8		832				D10		+S1B.R -X8		808							
/C00ST.3												D11											
/M06.6						-X8		855				D12		+S1B.R -X8		809							
/M06.6						-X8		856				D13		+S1B.R -X8		810							
/C00ST.3												D14											
/M04.4						-X8		839				D15		+S1B.R -X8		811							
/C00ST.3												D16											

03

02

01

NO.

AS BUILT

Fact.-Rev.

Approval

Alteration

05.12.2005

09.11.2005

20.08.2005

Date

AD

AD

AD

AD

13.07.2005

Drawn

Check

Brüdnert

Adom

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig.

2

2

2

4

6

7

8

PLUG DIAGRAM

NIEDERSPG. -SCHR. A-

NIEDERSPG. -SCHR. B

PANEL

02

50.3023.01.A3.741.224

Typ: 10

Autotransformer

D009781.02.602-3.AHA

V =L02

+STA.R

/ S41

Sheet83

99Sh.

00978102

Copyright as per DIN 34 to be observed!

FLD 02

22.12.2006

Copyright as per DIN 34 to be observed!

D00978102

FELD 02

22.12.2006

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.224	V=L02		
02	Fact.-Rev.	09.11.2005 AD	Drawn	Bräunert	50.3023.01	NIEDERSPG.-SCHR. A- NIEDERSPG.-SCHR. B			+S1A.R	/S11
01	Approval	20.09.2005 AD	Checked	Adam	SUBSTATION T80	PANEL				Sheet83
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:	Typ: 10	Autotransformer	D009781.02.602-3.AHA
						02				99Sh.



33	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM		50_3023_01.A3.741_224		V=L02
	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50_3023_01		PANEL		Type: 10		+S1B.R
11	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		02		Autotransformer		Sheet 85
AD	Alteration			Date	Name/Sid.	Orig.	iss.for	iss.by:	D009781.02_602-3_AHA		99Sh.	

303	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA		TERMINAL DIAGRAM		50..3023..01..43..741..224	V = 02
	Fact. - Rev.	09.11.2005	AD	Drawn	Br-dunert	50..3023..01		PANEL		Type: 10	+StB.R
011	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		02		Autotransformer	995h
	Alteration			Date	Name	Sid.	Orig.	iss. for	iss. by:	D009781.02..602-3..AHA	

**AREVA**

[illegible]

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_741_224	V=02 +S1B_R	/ 800	Sheet 89 99Sh.
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50_3023_01						
01	Approval	20.09.2005	AD	Check	Adm	SUBSTATION T80						
NO.	Alteration	Date	Name	Sid.	Orig.	Iss for	Iss by:	PANEL 02	Typ: 10 Auto transformer	D009781.02_602-3_AHA		

NO.	Alteration	Name	Std.	Qrty.	Iss.
03	AS BUILT	05.12.2006	AD	Date	13.07.2005
02	Fact. - Rev.	09.11.2005	AD	Drawn	Brünnert
01	Approval	20.09.2005	AD	Check	Adom
					SUBSTANTION T80
					50_3023_01
					US STEEL KOSICE/SLOVAKIA

## CROSS CONNECTION

[illegible]

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CROSS CONNECT. LIST		50.3023.01.A3.741.224	V=L02
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brdunert	50.3023.01		RELAY BOX			
01	Approval	20.09.2005	AD	Checked	Adam	SUBSTATION T80		PANEL			
NO.	Alteration	Date	Named	Std.	Orig.	iss.for	iss.by:	02	Type: 10	Autotransformer	D009781.02.602-3.AHA
										99Sh.	99Sh.

# TERMINAL DIA. , 64-POLE , CIRCUIT-BREAKER SOCKET

+S1B.R -X02  
CABLE MATERIAL H05V-K 1.0mm2 SW

A				B				C				
+												+
1	-X1	101	/L01.6 H05V-K 1.0MM2 SW	-X8	806	-X1	100	-X3	308			1
2	-X1	102	/L01.6 H05V-K 1.0MM2 SW	-X8	813	-X1	101	/L01.6 H05V-K 1.0MM2 SW	802			2
3	-X1	121	/L01.6 H05V-K 1.0MM2 SW	-X8	817	-X1	102	/L01.6 H05V-K 1.0MM2 SW	807			3
4	-X1	123	/L01.6 H05V-K 1.0MM2 SW	-X8	818	-X1	103	/L01.6 H05V-K 1.0MM2 SW	808			4
5	-X1	122	/L01.6 H05V-K 1.0MM2 SW	-X0	5	-X0	104	/L01.6 H05V-K 1.0MM2 SW	906			5
6	-X1	124	/L01.6 H05V-K 1.0MM2 SW	-X0	7	-X0	105	/L01.6 H05V-K 1.0MM2 SW	916			6
7	-X8	804	/L04.4 H05V-K 1.0MM2 SW	-X1	128	-X1	106	/L04.4 H05V-K 1.0MM2 SW	816			7
8	-X8	811	/L04.4 H05V-K 1.0MM2 SW	-X1	131	-X1	107	/L04.4 H05V-K 1.0MM2 SW	821			8
9	-X8	812	/L04.4 H05V-K 1.0MM2 SW	-X9	901	-X9	108	/L04.4 H05V-K 1.0MM2 SW	907			9
10	-X4	401	/R01.5 H05V-K 1.0MM2 SW	-X9	911	-X9	109	/R01.5 H05V-K 1.0MM2 SW	917			10
11	-X4	402	/R01.5 H05V-K 1.0MM2 SW	-X1	127	-X1	110	/R01.5 H05V-K 1.0MM2 SW	905			11
12	-X3	301	/L01.5 H05V-K 1.0MM2 SW	-X1	130	-X1	111	/L01.5 H05V-K 1.0MM2 SW	915			12
13	-X3	303	/L01.5 H05V-K 1.0MM2 SW	-X8	815	-X8	112	/L01.5 H05V-K 1.0MM2 SW	181			13
14	-X3	304	/L01.5 H05V-K 1.0MM2 SW	-X8	820	-X8	113	/L01.5 H05V-K 1.0MM2 SW	023			14
15	-X8	801	/L03.2 H05V-K 1.0MM2 SW	-X8	814	-X3	114	/L03.2 H05V-K 1.0MM2 SW				15
16	-X8	805	/L03.2 H05V-K 1.0MM2 SW	-X8	819	-X3	115	/L03.2 H05V-K 1.0MM2 SW				16
+												+

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.224	V=L02	451B.R	/S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner t	50.3023.01	CIRCUIT-BREAKER				
01	Approval	20.09.2005	AD	Check	Adom	SUBSTATION T80	PANEL	Typ: 10	Autotransformer	D009781.02.602-3.AHA	Sheet 92
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:				99Sh.

Subject to technical modifications!  
Copyright as per DIN 34 to be observed!

FIELD 02  
HJ0115MD  
S01  
=L02+S1B  
ADAM

D00978102





D0978102 Copyright as per DIN 34 to be observed!

FELD 02

HJ0115MD  
CO2  
=LO2+S3A  
ADAM

14.12.2006

ANSCHLUSSPLAN-KOPFSYMBOL-BESCHRIFTUNGEN  
ZIEL:  
TYP :  
VERWENDUNGSZWECK :  
VERORDNUNGSMATERIAL :  
QUERVERBINDUNGEN : 0

ZULÄSSIGE ANZAHL ANSCHLÜSSE: 2  
CABLE

ZEICHNUNGSRAHMEN-  
BESCHRIFTUNGEN

BLATTBENENNUNG  
PLUG DIAGRAM  
CIRCUIT-BREAKER  
UNTERLAGENNR.:

NAMEN DES BLATTES  
S01  
BLATT  
BL

WEITERE DEFINITIONEN FÜR DEN ANSCHLUSSPLAN  
(1) INFORMANTER ANSCHLUSSPLAN (IN WEITER ZULE 21 BZT. EINTRAG IN VERDOKK U) ...: J  
(2) VERDOKKLESE: FUNKTION: =LO2+S3A BLATT: S01  
(3) VERDOKKLESE: FUNKTION: =LO2+S3A BLATT: S01  
(4) ZULENSYMBOL IN ANSCHLUSSPLAN .....: Vx630  
(5) ZULENSYMBOL IN ANSCHLUSSPLAN .....: Vx630MR

+S3A

-X01

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.224	V=LO2	/002
02	Fact.-Rev.	08.11.2005 AD	Drawn	Bräunert	50.3023.01	PANEL		+S3A	/002
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80				Sheet
NO.	Alteration	Date	Name	Sid.	Orig.	Iss. for	Iss. by:		Sh.

Typ: 10	Autotransformer	D009781.02.602-3.AHA	8
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CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	0 1.0MW2	H05V-K SW	-X01	B05 -S1	-001 71				
D01	0 1.0MW2	H05V-K SW	-X01	B06 -S1	-001 72				
L01	111L+ 0 1.0MW2	H05V-K SW	-X01	A01 -S22	-001 11				
L01	111L- 0 1.0MW2	H05V-K SW	-X01	A02 -S23	-001 12				
M01	0 1.0MW2	H05V-K SW	-F2	-001 C1 -S1	-001 222				
M01	0 1.0MW2	H05V-K SW	-F2	-001 C2 -S43	-001 11				
M01	0 1.0MW2	H05V-K SW	-S1	-001 221 -S21	-001 14				
M01	0 1.0MW2	H05V-K SW	-S21	-001 13 -S6	-001 12				
M01	0 1.0MW2	H05V-K SW	-X01	A03 -S1	-001 213				
M01	102L- 0 1.0MW2	H05V-K SW	-X01	A04 -F11	-001 C2				
M01	0 1.0MW2	H05V-K SW	-X01	A05 -S6	-001 11				
M01	0 1.0MW2	H05V-K SW	-X01	A06 -S43	-001 12				
M03	102L+ 0 1.0MW2	H05V-K SW	-X01	B07 -S1	-001 83				
M03	0 1.0MW2	H05V-K SW	-X01	B08 -S1	-001 84				
P01	0 1.0MW2	H05V-K SW	-S1	-01 32 -S61	14				
P01	0 1.0MW2	H05V-K SW	-X01	C05 -S1	-01 31				
P01	BUSBAR ES. RELEASE 0 1.0MW2	H05V-K SW	-X01	C06 -S61	11				
P01	DRAWG. UNIT RELEASE 0 1.0MW2	H05V-K SW	-X01	D13 -Y1	E1				
P01	214L- 0 1.0MW2	H05V-K SW	-X01	D14 -Y1	E2				
001	102L+ 0 1.0MW2	H05V-K SW	-X01	A12 -S1	-001 11 -S1	-001 23			
03	AS BUILT 05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD	05.12.2005 AD
02	Fact.-Rev.	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD	08.11.2005 AD
01	Approval	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD	20.09.2005 AD
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by	AREVA	CROSS CONNECT - LIST SWITCHING TRUCK PANEL	50.3023.01.A3.741.224 V=L02 +S3A /030 Sheet 94 99Sh.

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CROSS CONNECTION

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03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CROSS CONNECT. LIST SWITCHING TRUCK PANEL	50.3023.01.A3.741.224		V =02	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräuner t	50.3023.01			Typ: 10		+S3A	/ 031
01	Approval	20.09.2005	AD	Checked	Adam	SUBSTATION T80			Auto transformer		Sheet 95	
NO.	Alteration	Date	Nome	Std.	Orig.	iss. for	iss. by:	02	D009781.02.602-3.AHA		99Sh.	
1					2	Δ 3	Δ 4	Δ 5	6	7	8	

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q08	0 1.0MW2	H05V-K SW	-X01	B16 -S25	-001 14				
Q08	0 1.0MW2	H05V-K SW	-X01	D07 -S1	-01 33				
Q08	0 1.0MW2	H05V-K SW	-X01	D08 -S1	-01 34				
R01	0 1.0MW2	H05V-K SW	-X01	A10 -S41	-001 11				
R01	0 1.0MW2	H05V-K SW	-X01	A11 -S1	-001 230				
V01	0 1.0MW2	H05V-K SW	-S1	-01 42 -S62	14				
V01	0 1.0MW2	H05V-K SW	-X01	B09 -S1	-001 91				
V01	0 1.0MW2	H05V-K SW	-X01	B10 -S1	-001 92				
V01	0 1.0MW2	H05V-K SW	-X01	B11 -S1	-01 41				
V01	0 1.0MW2	H05V-K SW	-X01	B12 -S62	11				
V01	0 1.0MW2	H05V-K SW	-X01	C09 -S1	-001 103				
V01	0 1.0MW2	H05V-K SW	-X01	C10 -S1	-001 104				
V01	0 1.0MW2	H05V-K SW	-X01	C11 -S1	-001 111				
V01	0 1.0MW2	H05V-K SW	-X01	C12 -S1	-001 112				
V01	0 1.0MW2	H05V-K SW	-X01	C13 -S63	14				
V01	0 1.0MW2	H05V-K SW	-X01	C14 -S63	11				
V01	0 1.0MW2	H05V-K SW	-X01	D05 -S1	-01 51				
V01	0 1.0MW2	H05V-K SW	-X01	D06 -S1	-01 52				
V01	0 1.0MW2	H05V-K SW	-X01	D09 -S1	-01 61				
V01	0 1.0MW2	H05V-K SW	-X01	D10 -S1	-01 62				
				GROSS CONNECT. LIST SWITCHING TRUCK PANEL 02			50.3023.01.A3.741.224		
				AREVA			Typ: 10 Autotransformer		
				Iss.by:			D009781.02.602-3.AHA		
				Iss.for			Sheet 96 995H		
				US STEEL KOSICE/SLOVAKIA			V=L02 +SSA		
				50.3023.01			/ 032		
				SUBSTATION T80			Sheet 96 995H		
				Orig:			D009781.02.602-3.AHA		
				Date			995H		
				Name/Std.			995H		
				Date			995H		
				Drawn/Brüner			995H		
				Check/Adam			995H		
				Date			995H		
				Approval			995H		
				Date			995H		
				AS BUILT			995H		
				Date			995H		
				13.07.2005			995H		
				05.12.2005 AD			995H		
				09.11.2005 AD			995H		
				20.09.2005 AD			995H		
				22.12.2006			995H		
				HJ0145MD			995H		
				L02+SSA			995H		
				D00978102			995H		
				Copyright as per DIN 34 to be observed!			995H		

## CROSS CONNECTION

[illegible]

		+3A		-X01		CABLE MATERIAL		H05V-K 1.0mm2 SW			
		A		B		C		D			
1	1	-001 /L01.2	11	-001 /002.4	-S1	44	-001 /M01.5	-S1	243	-01 /001.3	14
2	2	-001 /L01.2	12	-001 /008.2	-S1	51	-001 /M01.5	-F12	62	-01 /002.5	21
3	3	-001 /M01.6	213	-001 /008.2	-S1	52				-01 /002.5	22
4	4	-001 /M01.6	C2	-001 /008.2	-S1	64				-01 /002.5	24
5	5	-001 /M01.7	11	-001 /001.3	-S1	71	-01 /P01.2	-S1	31	-01 /M01.4	51
6	6	-001 /M01.7	12	-001 /001.3	-S1	72	-S61 /P01.2	-S1	11	-01 /M01.4	52
7	7	-001 /M04.3	11	-001 /M03.5	-S1	83				-01 /M08.4	33
8	8	-001 /M04.3	12	-001 /M03.5	-S1	84				-01 /M08.4	34
9	9	-001 /M04.3	14	-001 /M01.2	-S1	91	-001 /M01.2	-S1	103	-01 /M01.5	61
10	10	-001 /M01.3	11	-001 /M01.2	-S1	92	-001 /M01.2	-S1	104	-01 /M01.5	62
11	11	-001 /M01.3	230	-01 /M01.4	-S1	41	-001 /M01.3	-S1	111	-01 /M01.4	43
12	12	-001 /M02.2	11	-S62 /M01.4	-S1	11	-001 /M01.3	-S1	112	-01 /M01.4	44
13	13	-001 /M01.2	12	-001 /M08.3	-S42	11	-S63 /M01.5		14	-Y1 /P01.4	E1
14	14	-001 /M01.2	24	-001 /M08.3	-S42	14	-S63 /M01.5		11	-Y1 /P01.4	E2
15	15	-001 /M02.3	31	-001 /M08.3	-S25	11	-01 /M01.3	-S1	11		
16	16	-001 /M02.3	32	-001 /M08.3	-S25	14	-01 /M01.3	-S1	12		

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM CIRCUIT-BREAKER PANEL 02	50_3023_01_A3_741_224 V = L02 #S3A	/ S01 Sheet 88 99Sh.
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50_3023_01				
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80				
NO.	Alteration	Date	Name	Sid.	Orig.	Iss. for	Iss. by:	Type: 10	Auto/transformer	D009781.02.602-3.AHA

ADAN  
S01  
=L02+S3A  
HJ0115ND

# TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

+S3B -X02 CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A01	B01	A02	B02	A03	B03	A04	B04	A05	B05	A06	B06	A07	B07	A08	B08
A09	B09	A10	B10	A11	B11	A12	B12	A13	B13	A14	B14	A15	B15	A16	B16
C01	D01	C02	D02	C03	D03	C04	D04	C05	D05	C06	D06	C07	D07	C08	D08
C09	D09	C10	D10	C11	D11	C12	D12	C13	D13	C14	D14	C15	D15	C16	D16
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.224	VI=L02	8
02	Fact.-Rev.	09.11.2005 AD	Drawn	Bräunert	50.3023.01	CIRCUIT-BREAKER		+S3B	7
01	Approval	20.08.2005 AD	Check	Adam	SUBSTATION T80	PANEL			6
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:	Auto transformer	D009781.02.602-3-AHA	5
							Typ: 10	99Sh.	4

H0115ND  
=L02+S3B  
S01  
ADAM

FIELD 02  
D0978102

Subject to technical modifications!  
Copyright as per DIN 34 to be observed!