

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T80

LONGITUDINAL COUPLING  
CIRCUIT DIAGRAM

A = L10

/ A01

D009781.02. 610-3. AHA

50.3023.01.A3.741.231  
COVER SHEET  
PANEL  
10

DATE :	06.06.2005
Prep.:	ADAM
Check:	GROHMANN
Norm :	

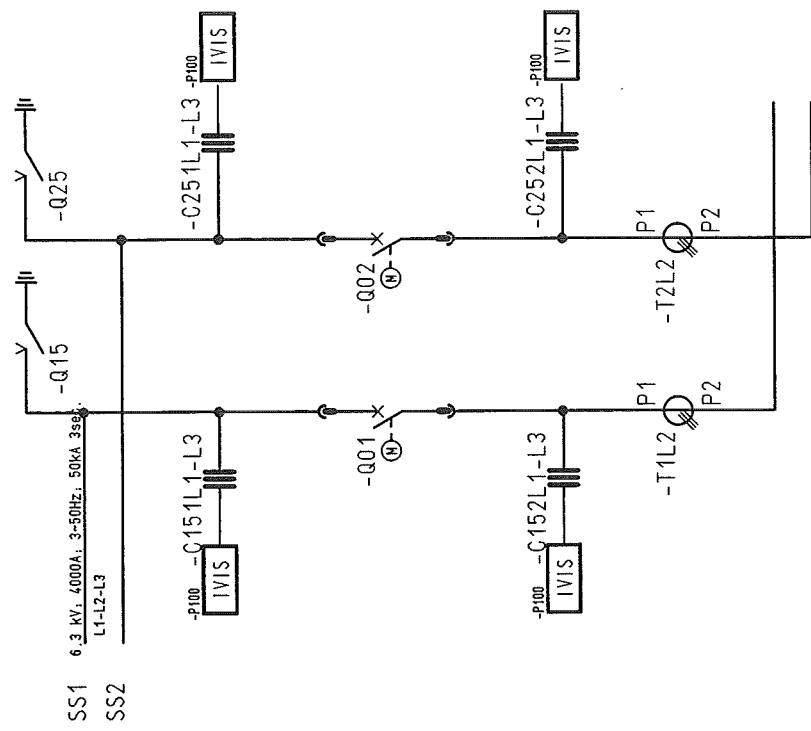
05.01.2007  
H30115ND  
00978102  
=L10  
A01  
ADAM

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	-Q15, -Q25 -Q01, -Q02		-Q01, -Q02	
STATUS SIGNAL	-Q01, -Q02, -Q15, -Q25		-Q01, -Q02, -Q15, -Q25	
MEASUREMENT				
PROTECTION				
METERING				

[illegible]

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYPE	RATIO	VDE	REMARKS
-T1L2 -T2L2	AREG AREG	GT12 GT12	4000/1A 4000/1A	C1: c1. 1FS5 5VA C1: c1. 1FS5 5VA	
-C151L1 -C151L2 -C151L3	AREVA AREVA AREVA	IVIS IVIS IVIS			CAP. TAPPING
-C152L1 -C152L2 -C152L3	AREVA AREVA AREVA	IVIS IVIS IVIS			CAP. TAPPING
-C251L1 -C251L2 -C251L3	AREVA AREVA AREVA	IVIS IVIS IVIS			CAP. TAPPING
-C252L1 -C252L2 -C252L3	AREVA AREVA AREVA	IVIS IVIS IVIS			CAP. TAPPING

[illegible]

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05.01.2007

03 AS BUILT 05.12.2005 AD Date 05.06.2005  
02 Fact.-Rev. 09.11.2005 AD Drawn ADAM  
01 Approval 20.09.2005 AD Check GROHMANN  
NO Alteration Date Name/Sid

1		2		3		4		5		6		7		8	
CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
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1		2		3		4		5		6		7		8	
CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
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A	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	R01	32	CIRCUIT DIAGRAM PANEL		SIGNALLING 10			
	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	S01	33	CIRCUIT DIAGRAM PANEL		CURR. TRANSF. 10			
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	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	T02	35	CIRCUIT DIAGRAM PANEL		IVIS 10			
B	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	T03	36	CIRCUIT DIAGRAM PANEL		IVIS 10			
	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	T04	37	CIRCUIT DIAGRAM PANEL		IVIS 10			
	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	T05	38	CIRCUIT DIAGRAM PANEL		IVIS 10			
	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	V01	39	CIRCUIT DIAGRAM PANEL		SPARE CONTACTS 10			
C	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	V02	40	CIRCUIT DIAGRAM PANEL		SPARE CONTACTS 10			
	50.3023.01.A3.741 .231	D009781.02.610-3.AHA		01	02	03	S =L10	X01	41	CIRCUIT DIAGRAM PANEL		AX PE-BUS 10			
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03 AS BUILT 05.12.2005 AD Date 06.06.2005		US STEEL KOSICE/SLOVAKIA						Inhaltsverzeichnis		50.3023.01.A3.741 .231		A=L10			
02 Fact.-Rev. 08.11.2005 AD Drawn ADAM		50.3023.01						PANEL						/ 802	
01 Approval 20.09.2005 AD Check GROHMANN		SUBSTATION T80						10						Sheet 4	
NO. Alteration		Date		Iss. for		Iss. by:						Type: 07		LONGITUDINAL COUPL D009781.02.610-3.AHA	
														111SH	
														8	



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05.01.2007

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D00978102

03	AS BUILT	05.12.2005	ID	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	
02	Fact.-Rev.	08.11.2005	ID	Drawn	ADAM	50.3023.01	
01	Approval	20.09.2005	ID	Check	GROHMANN	SUBSTATION T80	
NO.	Alteration	Date	Name	Sid.	Iss.	for	Iss.

Inhaltsverzeichnis		50.3023.01.A3.741.231		A1=L10		/ 803	
PANEL		10		Type: 07		Sheet 5	
Longitudinal Coupl		D009781.02.610-3.AHA		11Tsh			

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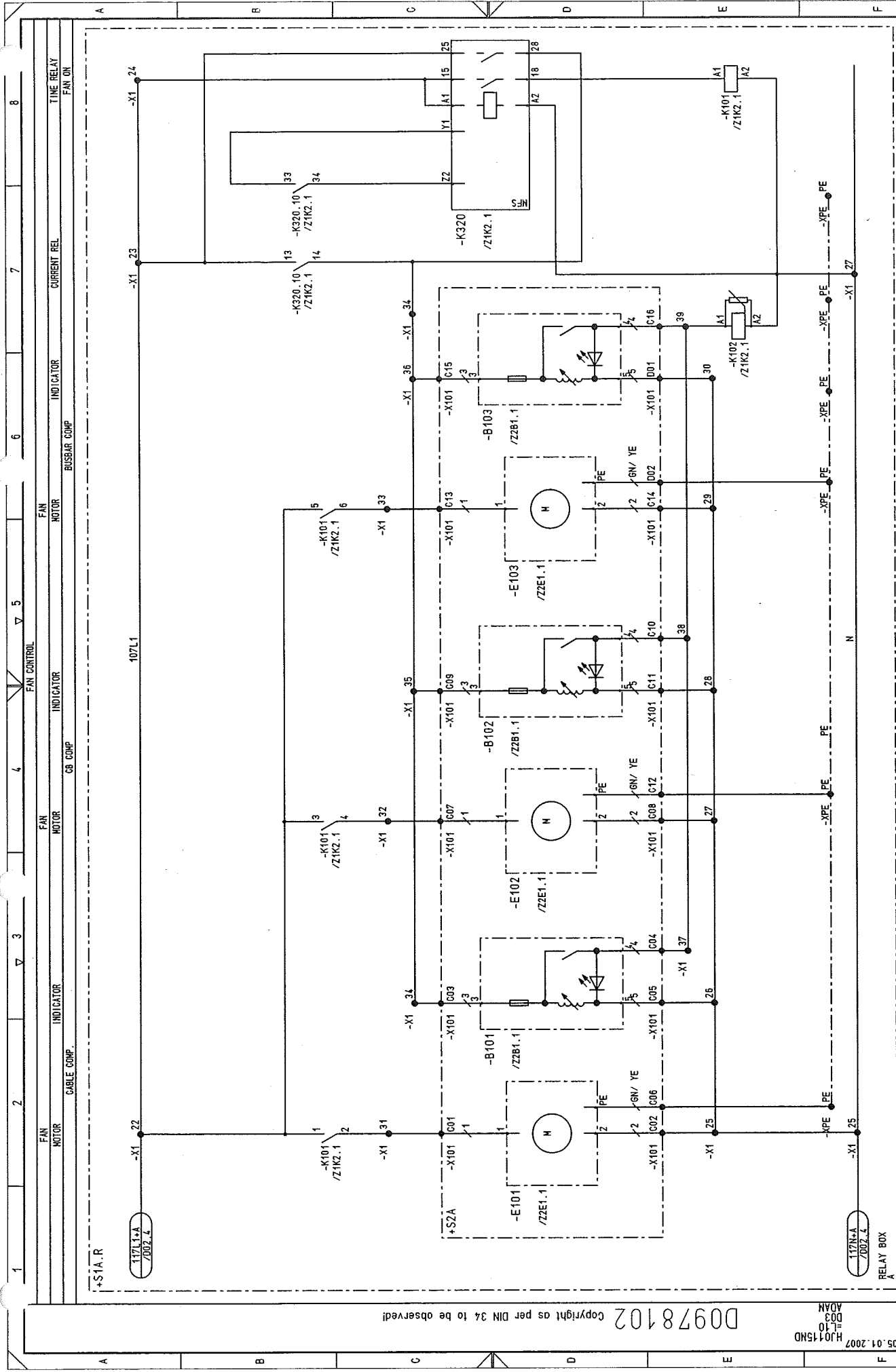
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Sheet 6  
111Sh.







NO.	03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.231	S=L10	1115h.
02	Fact. -Rev.	03.11.2005	AD	Drawn	ADAM	50.3023.01		FAN A			Sheet 9
01	Approval	20.04.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL			1115h.
Alteration	Date	Name	Std.	Iss. for	Iss. by:						
1				2	3	4	5	6	7	8	

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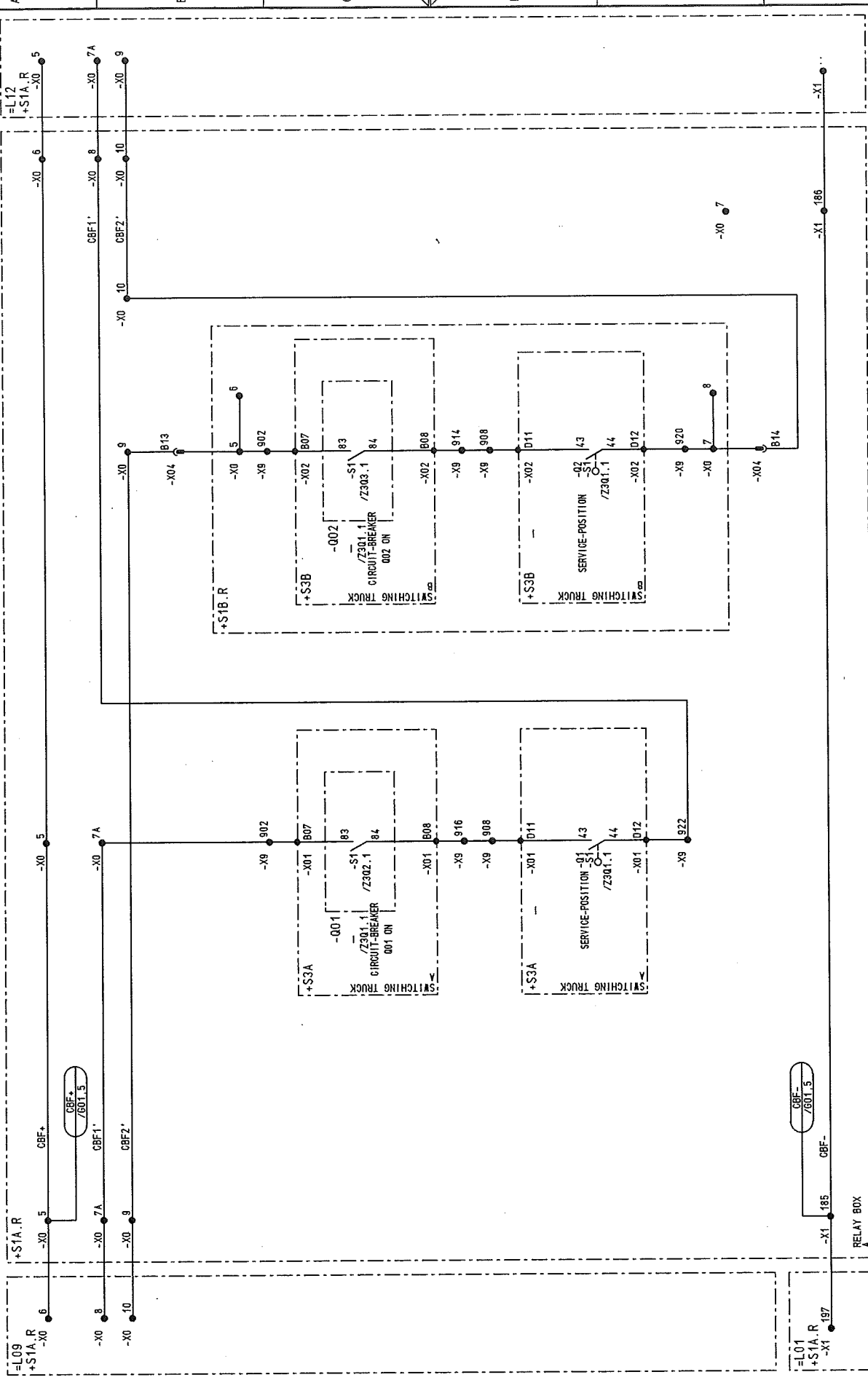
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05.01.2007

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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CBF			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Name	Std.	Iss. by:	Iss. for	Iss. by:	LONGITUDINAL COUPL	D009781.02.610-3.AHA	Sheet11 111Sh.



RELAY BOX

CBF-  
Z601.5

CBF-

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-X0 197

+L01

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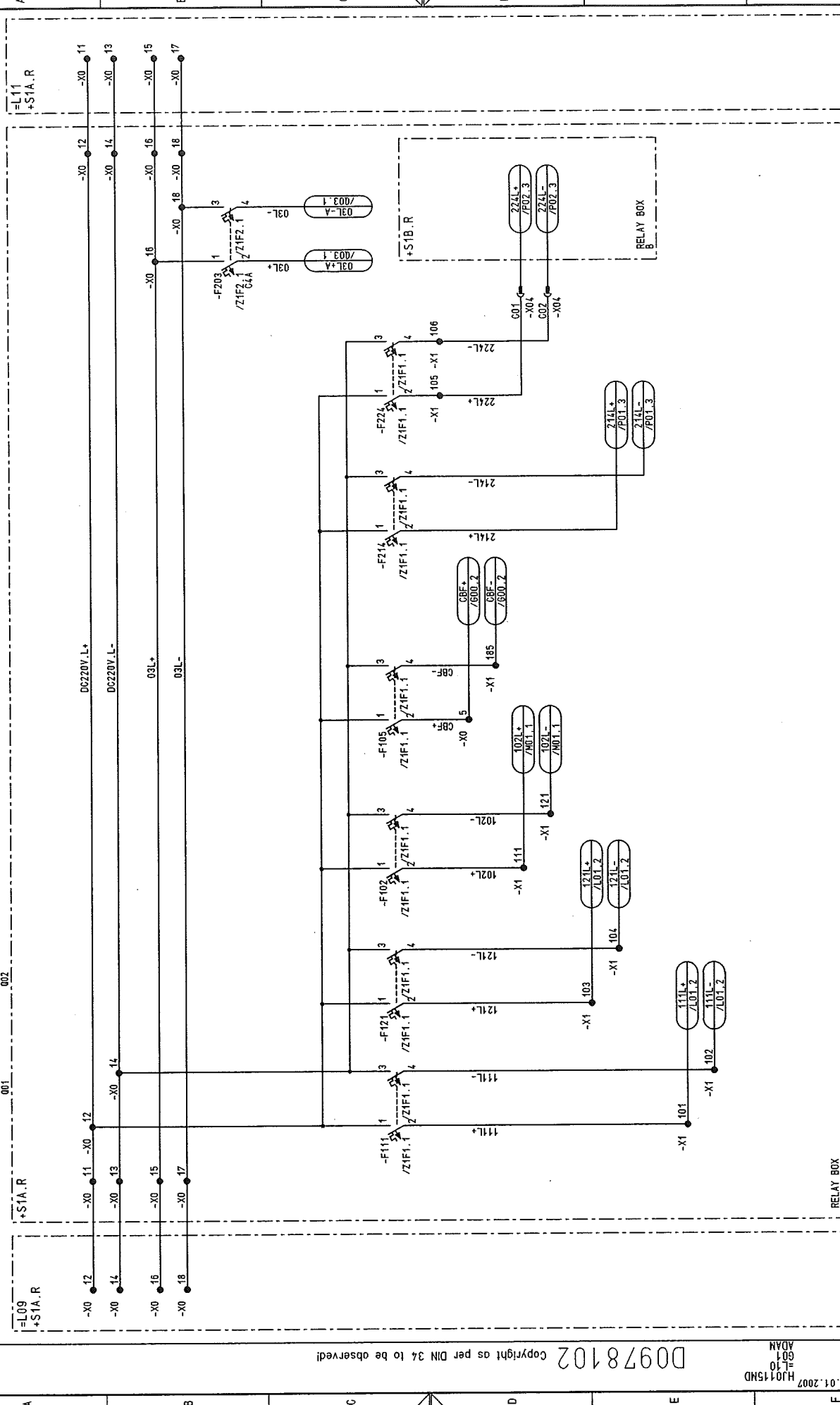
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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.231	S=L10	/601
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	DC DISTR.			Sheet 12
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			111Sh.
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:		LONGITUDINAL COUPL	D009781.02.610-3.AHA	



DC DISTR.

CIRCUIT DIAGRAM

50.3023.01.A3.741.231

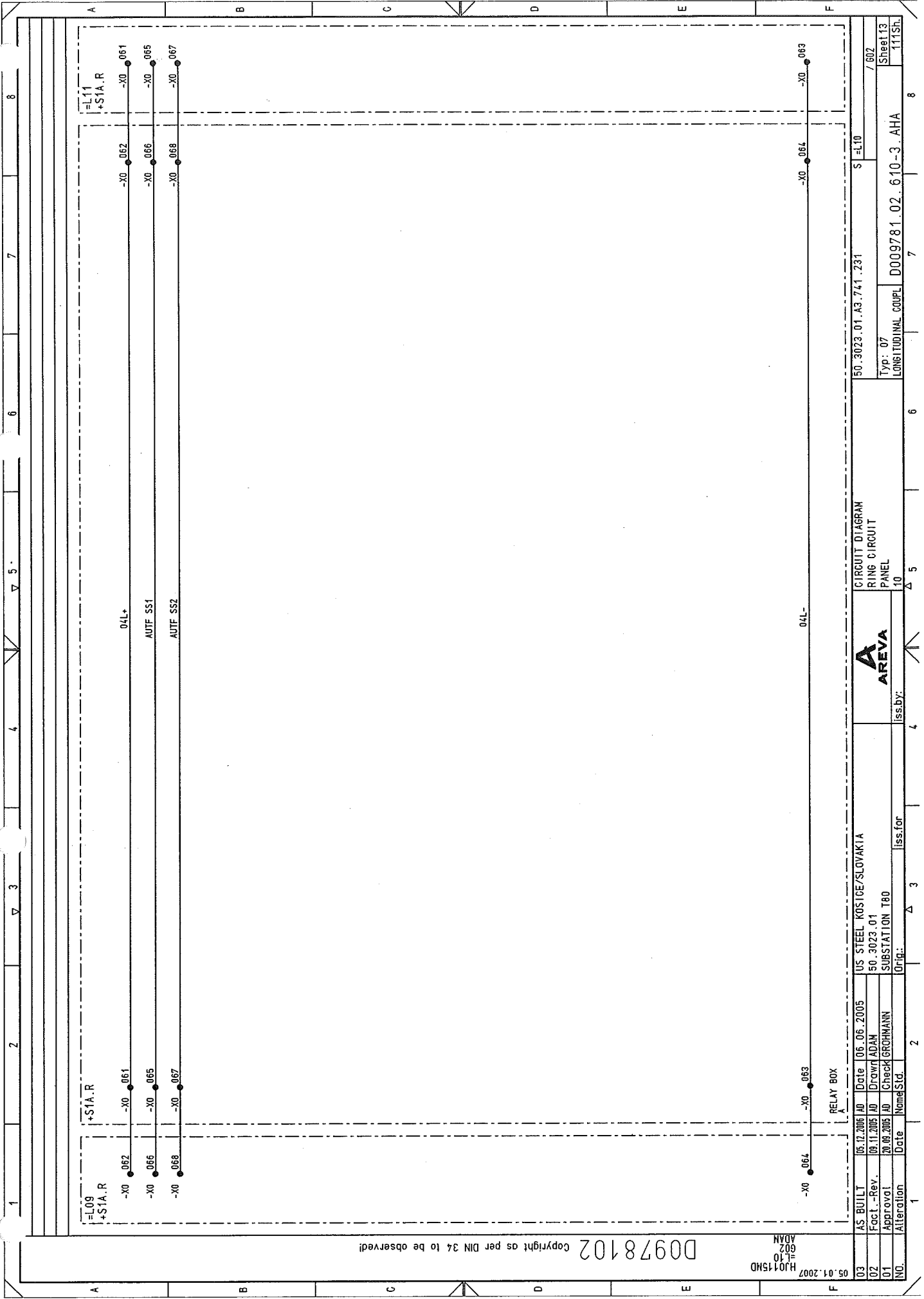
LONGITUDINAL COUPL

D009781.02.610-3.AHA

Sheet 12

111Sh.





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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
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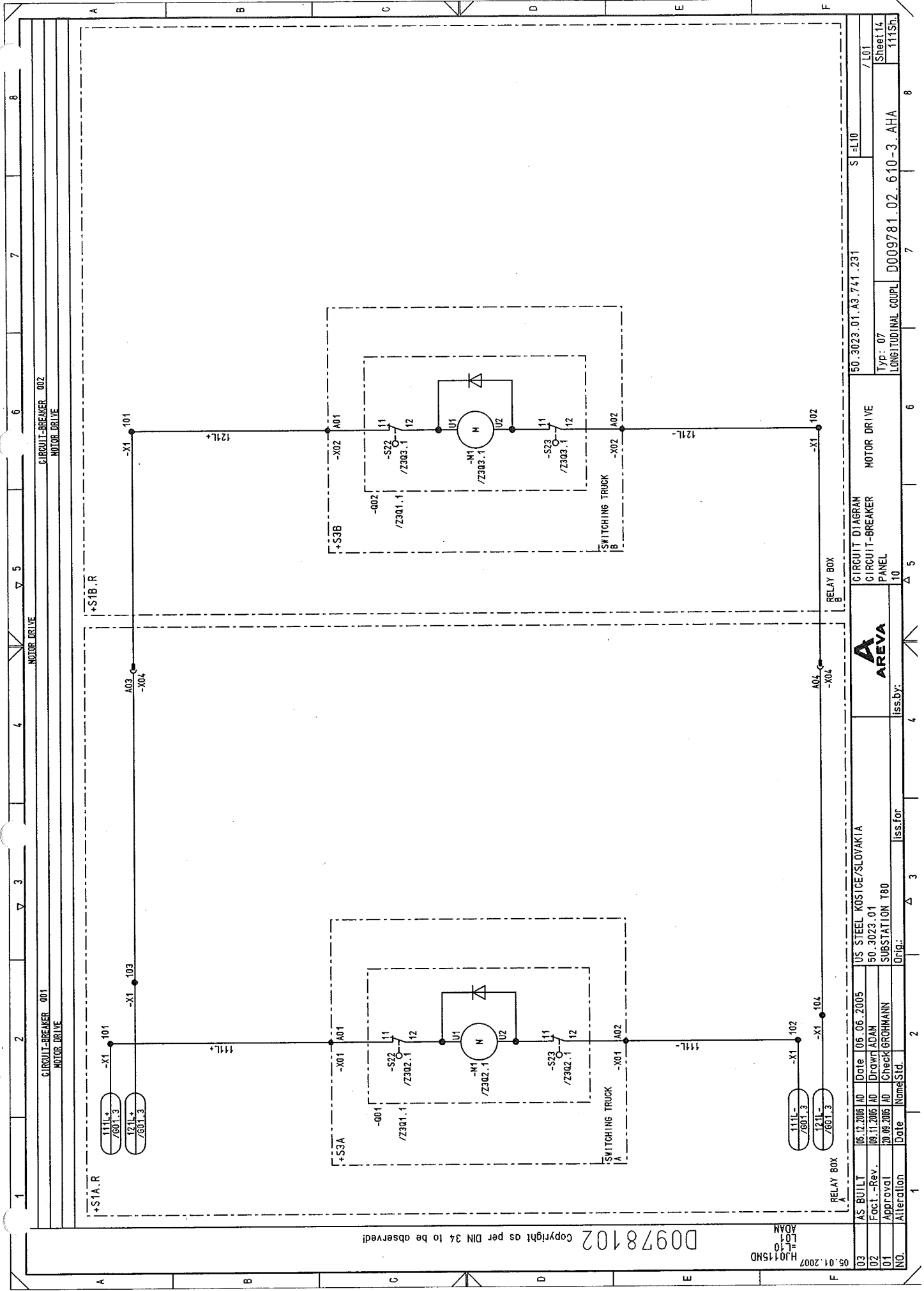
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D009781.02.610-3.AHA  
Sheet 13  
111Sh.

CIRCUIT DIAGRAM  
RING CIRCUIT  
PANEL  
10

AREVA  
Iss. by: 10

50.3023.01.A3.741.231  
S=L10



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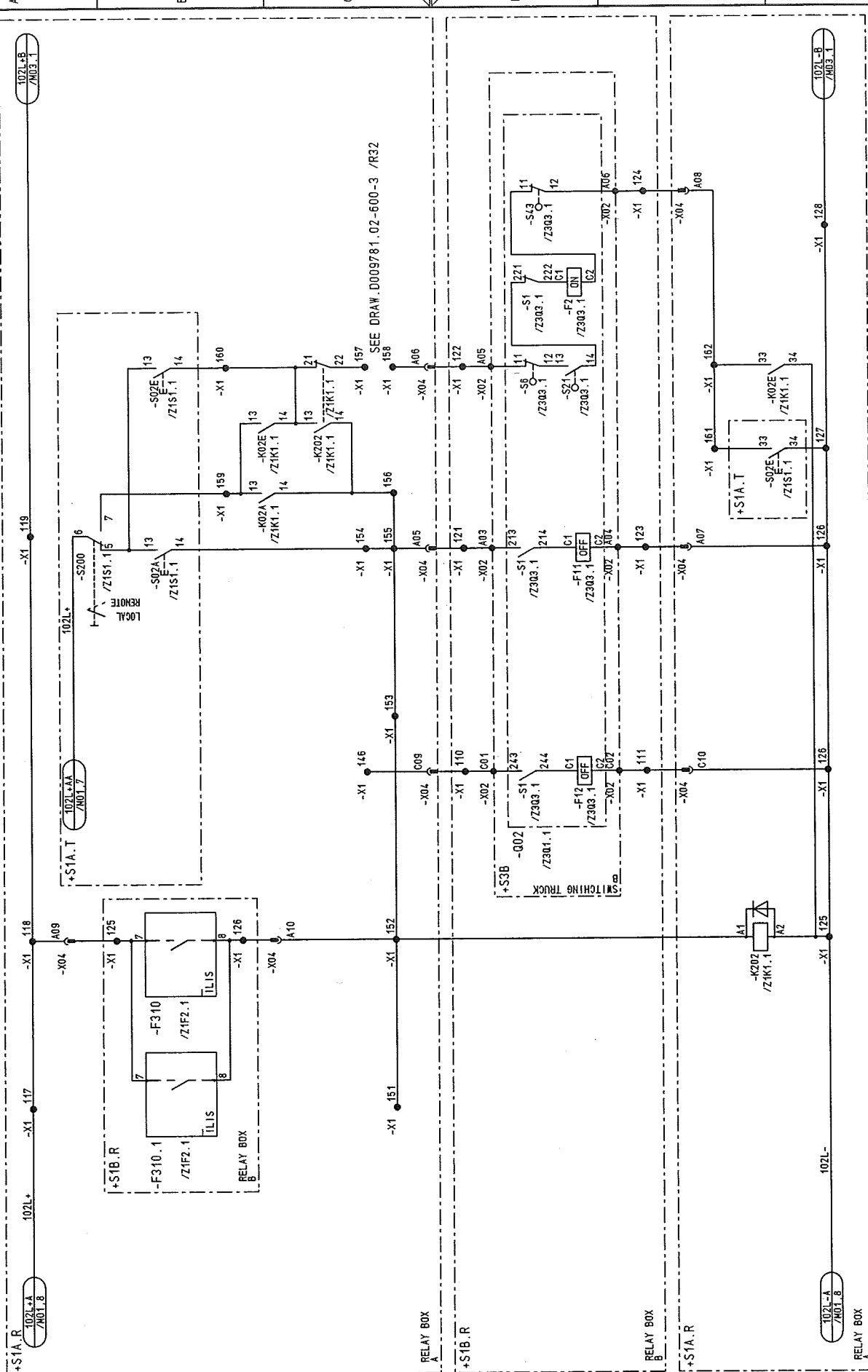
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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			7
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			6
NO.	Alteration	Date	Name	Std.	Iss.by:	Iss.for	10	LONGITUDINAL COUPL	D009781.02.610-3.AHA	5
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NO.		Alteration	Date	Name	Std.	Iss. for	Iss. by:	CIRCUIT DIAGRAM		50.3023.01.A3.741.231		S=L10	Sheet 16
03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CONTROL					
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		PANEL					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		10					
NO.		Alteration	Date	Name	Std.	Iss. for	Iss. by:	7		D009781.02.610-3.AHA		111Sh.	



CIRCUIT DIAGRAM

CONTROL

PANEL

10

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8



**AREVA**

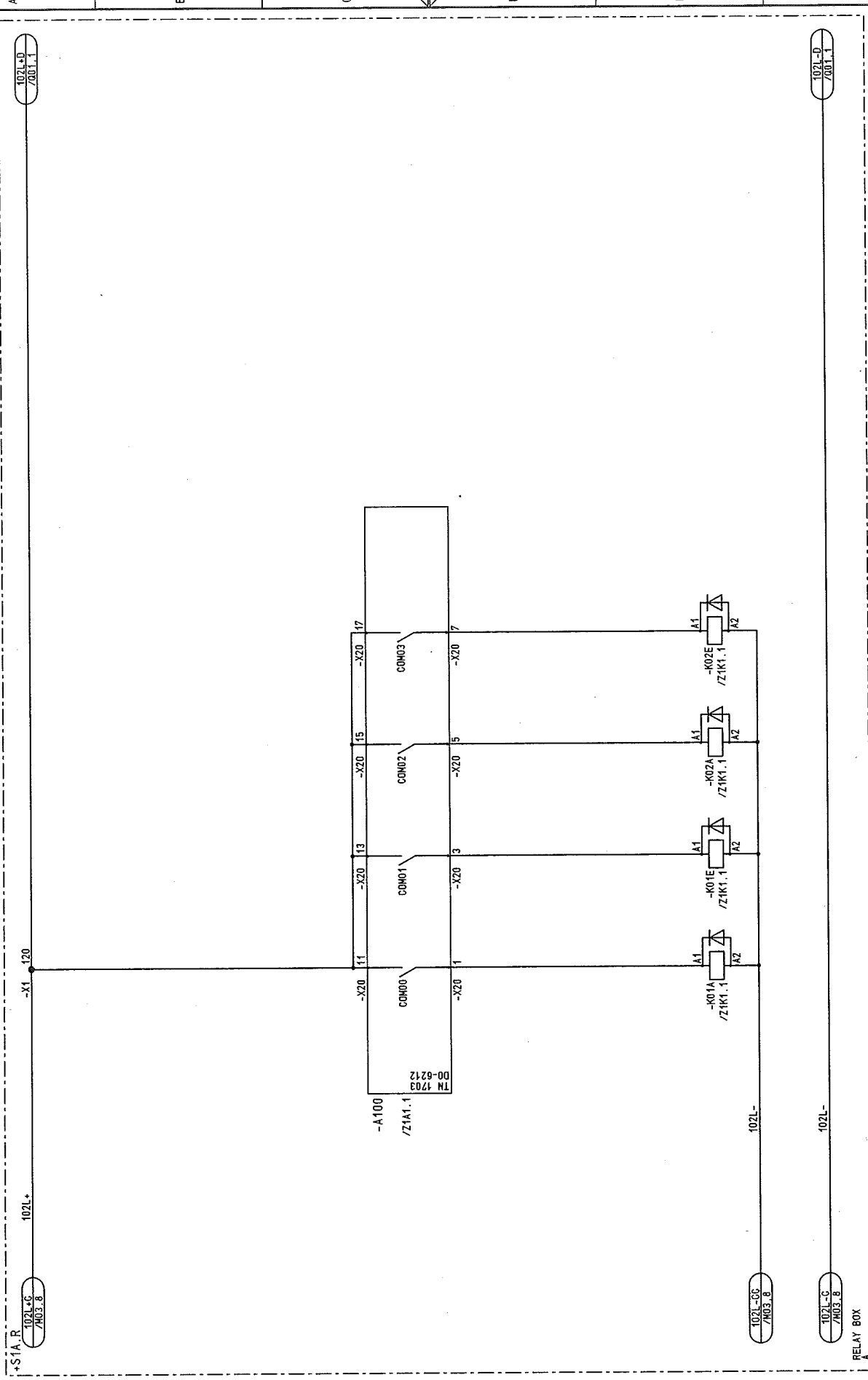
HJ0115ND  
=L10  
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ADAN

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03.01.2007  
HJ0115MD  
NO4  
=L10  
ADAM

D0978102

NO.	Alteration	Date	Name	Sld.	Orig.	Iss. for	Iss. by:	Panel	Control	Diagram	S	L10	/ M04	Sheet 18	1115h.
03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA				CIRCUIT DIAGRAM					
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01									
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80									
											D009781.02.610-3.AHA				
											LONGITUDINAL COUPL				
											Typ: 07				
											50.3023.01.A3.741.231				



102L-D  
/M01.1

102L-G  
/M03.8

102L-

102L-

102L-

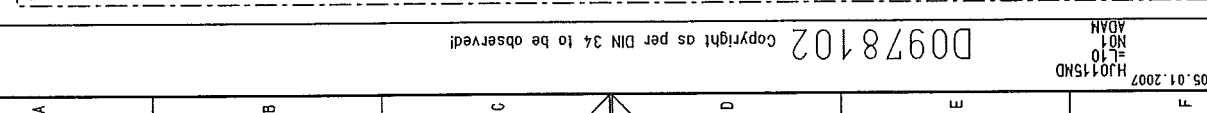
102L-

102L-

102L-

102L-

102L-



03	AS
02	FC
01	AP
NO.	AI



03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM		50_3023_01_A3_741_231		S=L10
02	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM	50_3023_01	ARC DETECTOR						/ NO2
001	Approval	20.09.2005	AD	Check BROHMANN	SUBSTATION T80	PANEL				Typ: 07		Sheet 20
NO.	Alteration	Date	Name/Sid.		Orig:	iss. for		iss. by:	LONGITUDINAL COUPL		D009781.02.610-3_AHA	





03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM		50.3023.01.A3.741.231		S=10	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		INTERLOCK				/ P02	
01	Approval	20.09.2003	AD	Check	GROHMANN	SUBSTATION T80		PANEL		Type: 07		Sheet 22	
NO.	Alteration	Date	Name	Sid.	Date	Orig.	iss. for	iss. by:	10	LONGITUDINAL COUPL		D009781.02.610-3.AHA	111Sh.

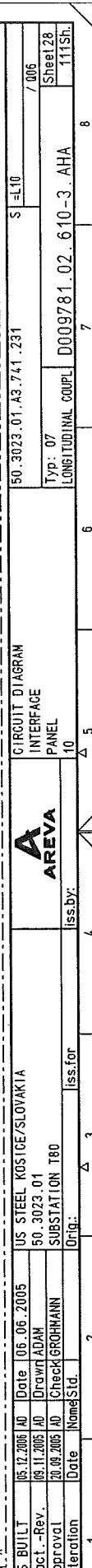






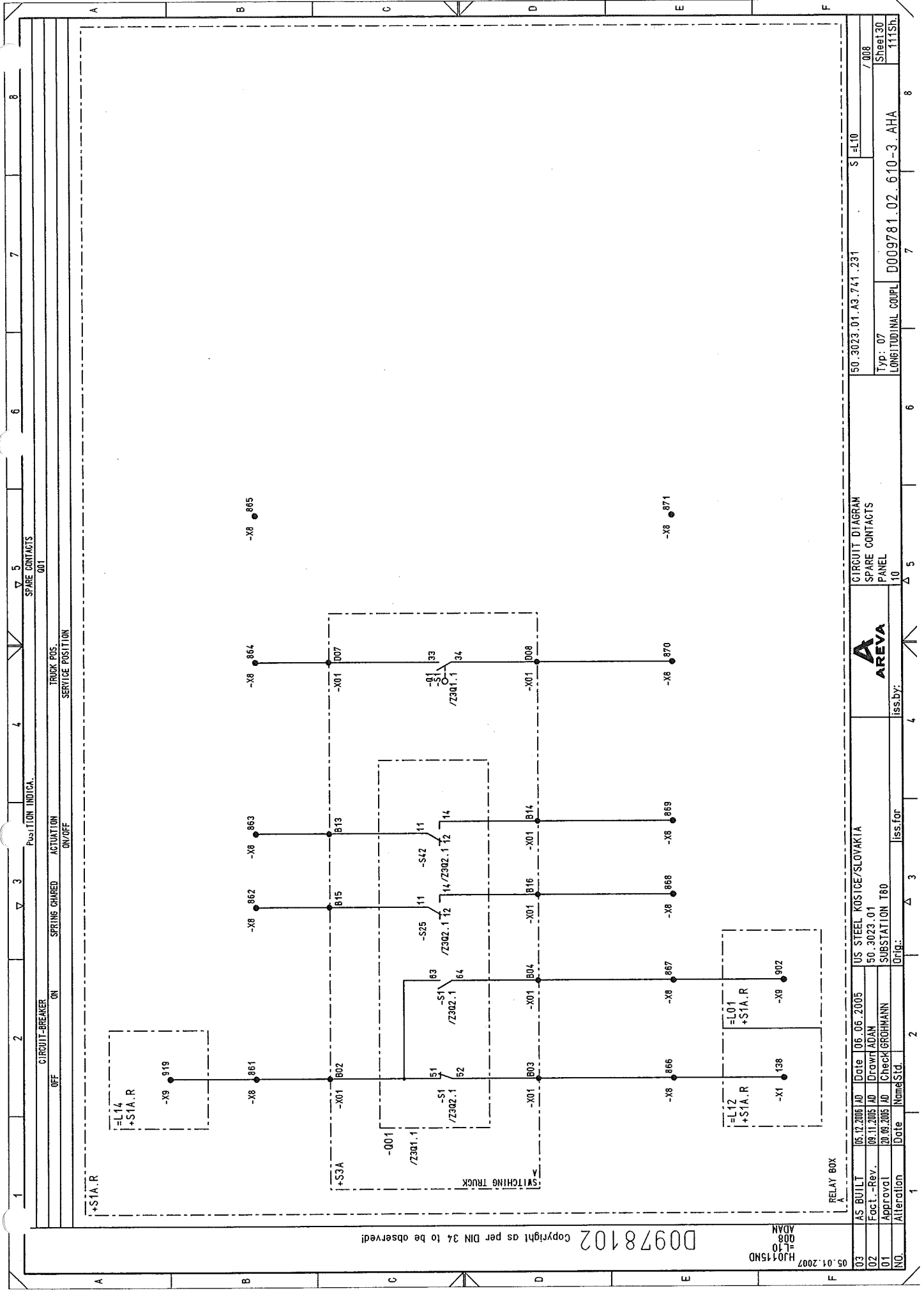












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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.231	S=L10	008
02	Fact. -Rev.	08.11.2005	AD	Drawn	ADAN	50.3023.01	SPARE CONTACTS			Sheet30
01	Approval	20.09.2005	AD	Check	GRÖHMANN	SUBSTATION T80	PANEL			111Sh.
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	LONGITUDINAL COUPL	D009781.02.610-3.AHA	

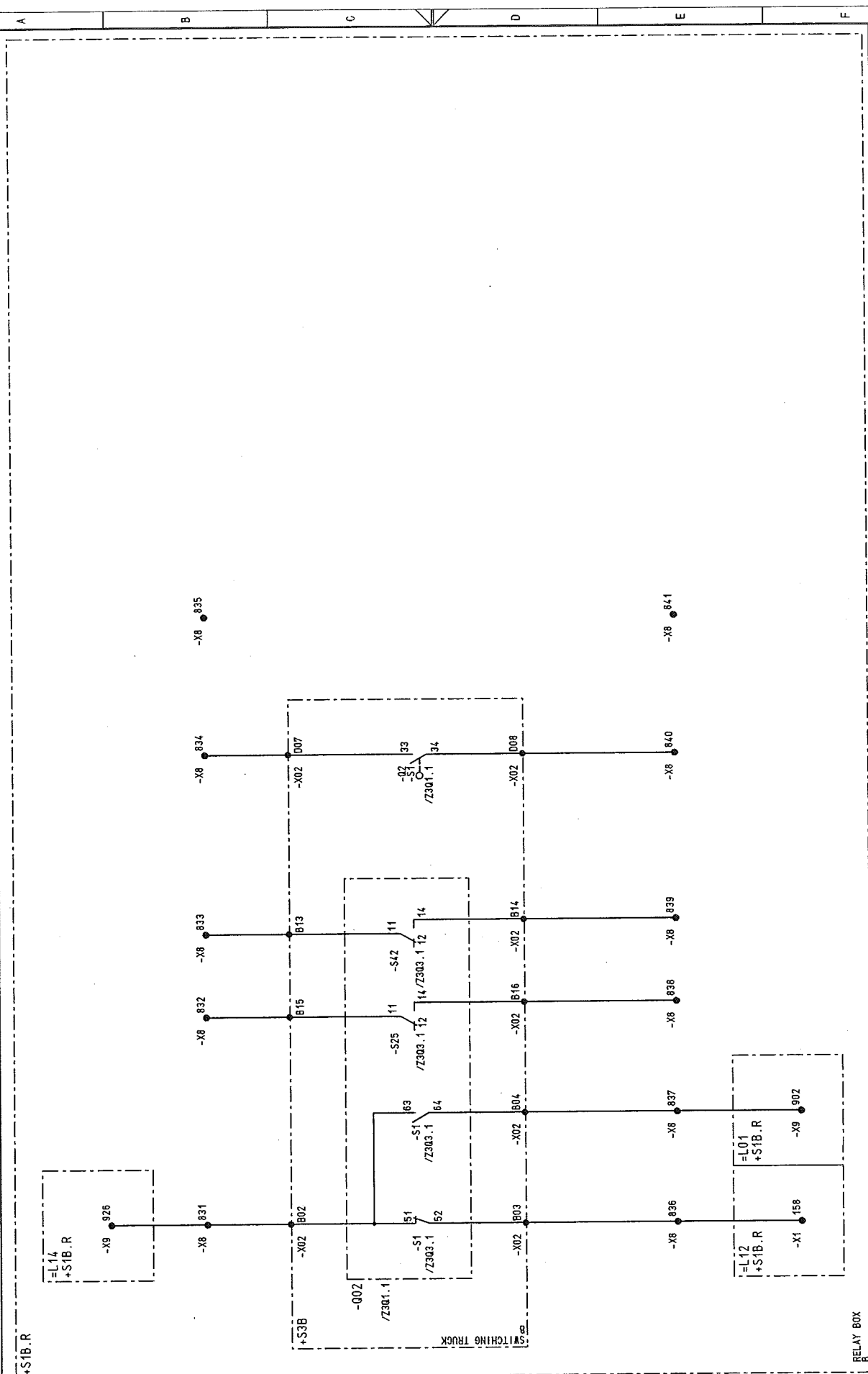


CIRCUIT DIAGRAM  
SPARE CONTACTS  
PANEL

50.3023.01.A3.741.231  
S=L10  
Typ: 07  
LONGITUDINAL COUPL  
D009781.02.610-3.AHA

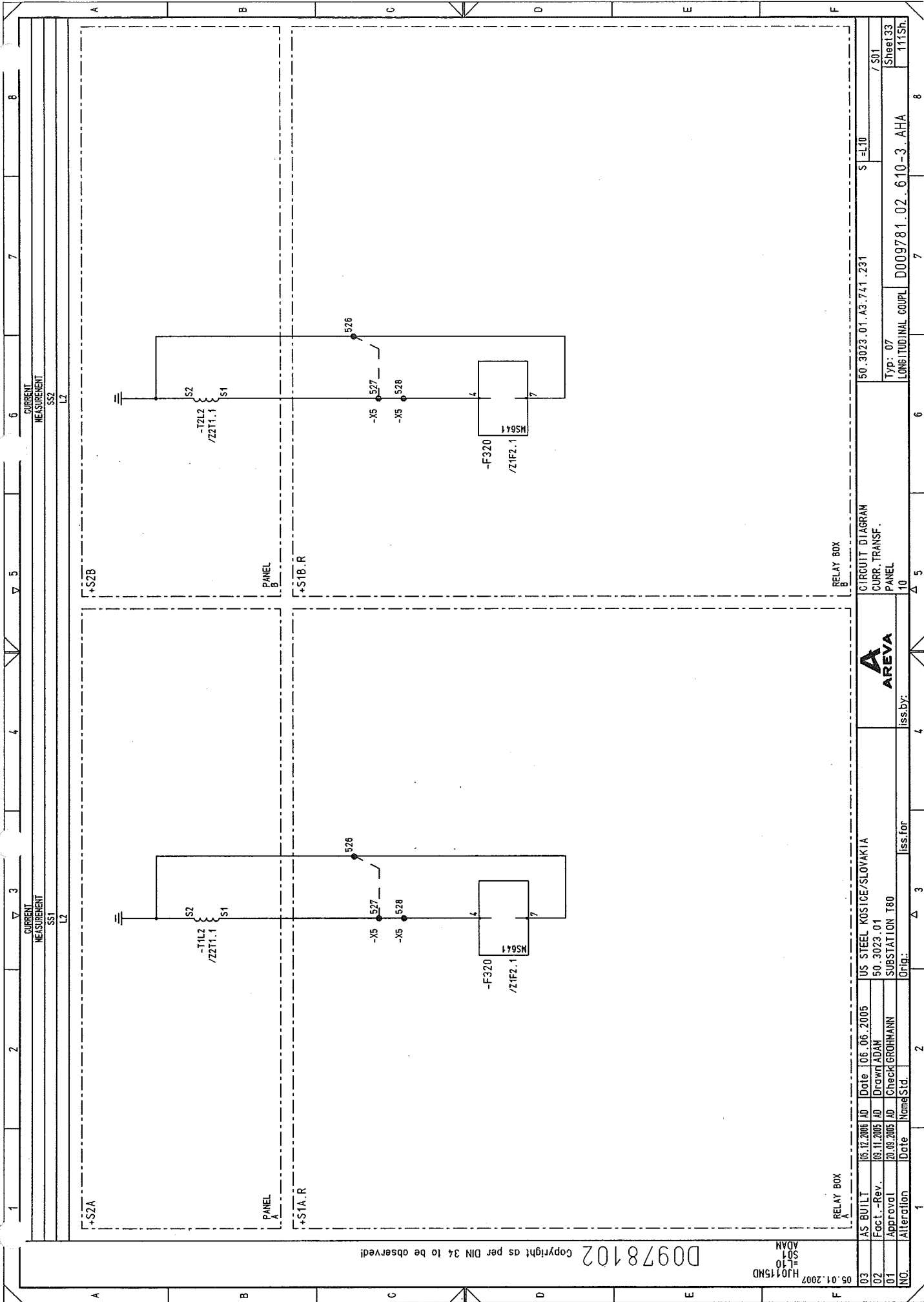
D00978102 Copyright as per DIN 34 to be observed!

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ADAN  
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CIRCUIT DIAGRAM		50. 3023. 01. A3. 741. 231		S =L10		/ 009	
SPARE CONTACTS		50. 3023. 01		Type: 07		Sheet 31	
PANEL		SUBSTATION T80		LONGITUDINAL COUPL		111Sh.	
10		Iss. by:		7		8	
AREVA		US STEEL KOSTICE/SLOVAKIA		6		7	
03 AS BUILT		06.12.2005 AD		Date 06.06.2005		4	
02 Fact. -Rev.		08.11.2005 AD		Drawn ADAM		5	
01 Approval		20.09.2005 AD		Check BROCHMANN		6	
NO.		Alteration		Date		7	
1		2		3		4	





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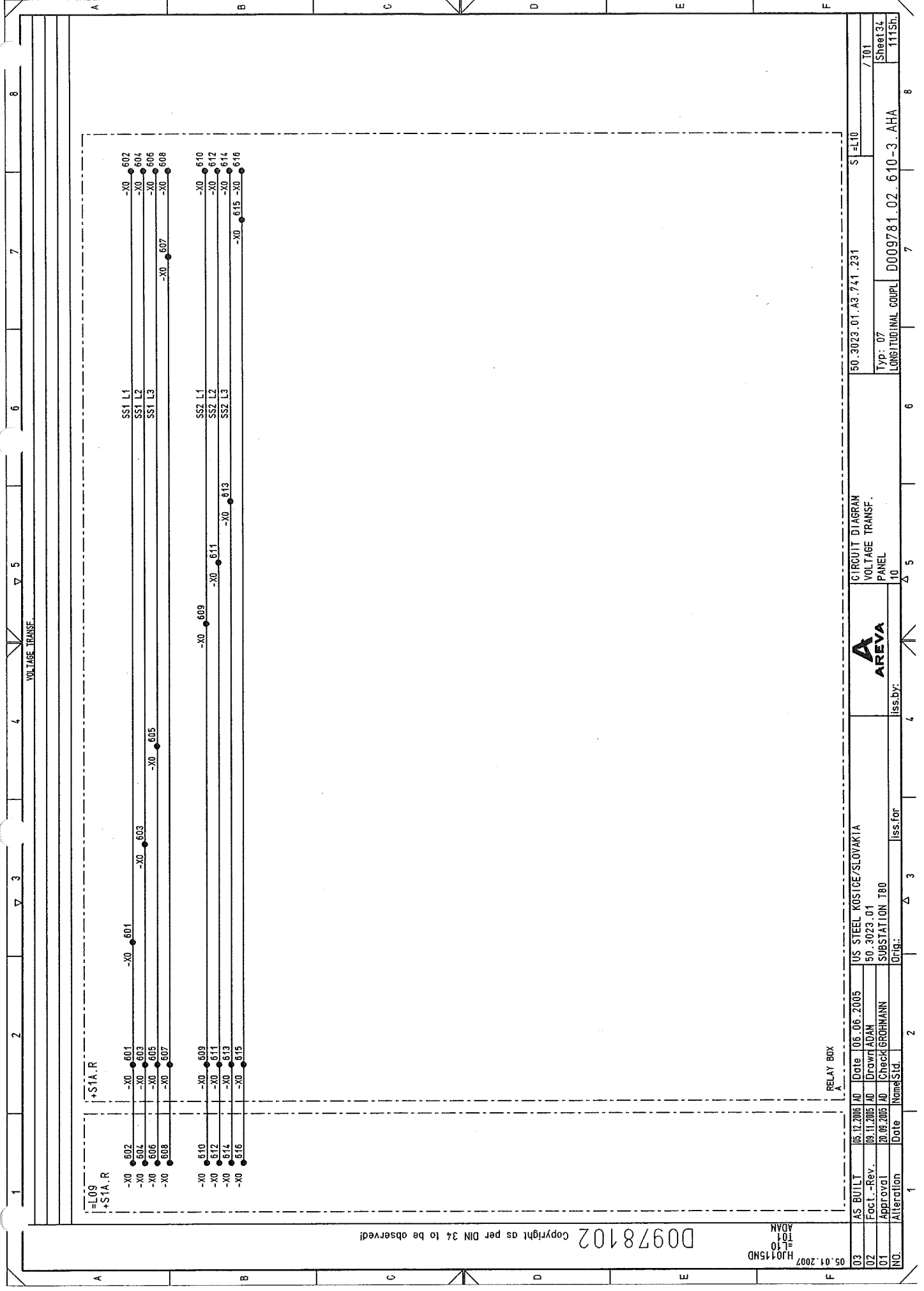
05.01.2007  
HJ0115ND  
L10  
S01  
ADAM

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss.for	Orig.

AREVA	ISS BY:	4
RELAY BOX	ISS BY:	4

CIRCUIT DIAGRAM	50.3023.01.A3.741.231	S1=L10
CURR. TRANSF.	50.3023.01.A3.741.231	S1=L10
PANEL	50.3023.01.A3.741.231	S1=L10

Typ: 07	LONGITUDINAL COUPL	D009781.02.610-3.AHA	111Sh.
Sheet 33	111Sh.		



+S1A.R

=L09  
+S1A.R

-X0 601 -X0 602  
-X0 603 -X0 604  
-X0 605 -X0 606  
-X0 607 -X0 608

-X0 609 -X0 610  
-X0 611 -X0 612  
-X0 613 -X0 614  
-X0 615 -X0 616

SS1 L1  
SS1 L2  
SS1 L3

SS2 L1  
SS2 L2  
SS2 L3

RELAY BOX

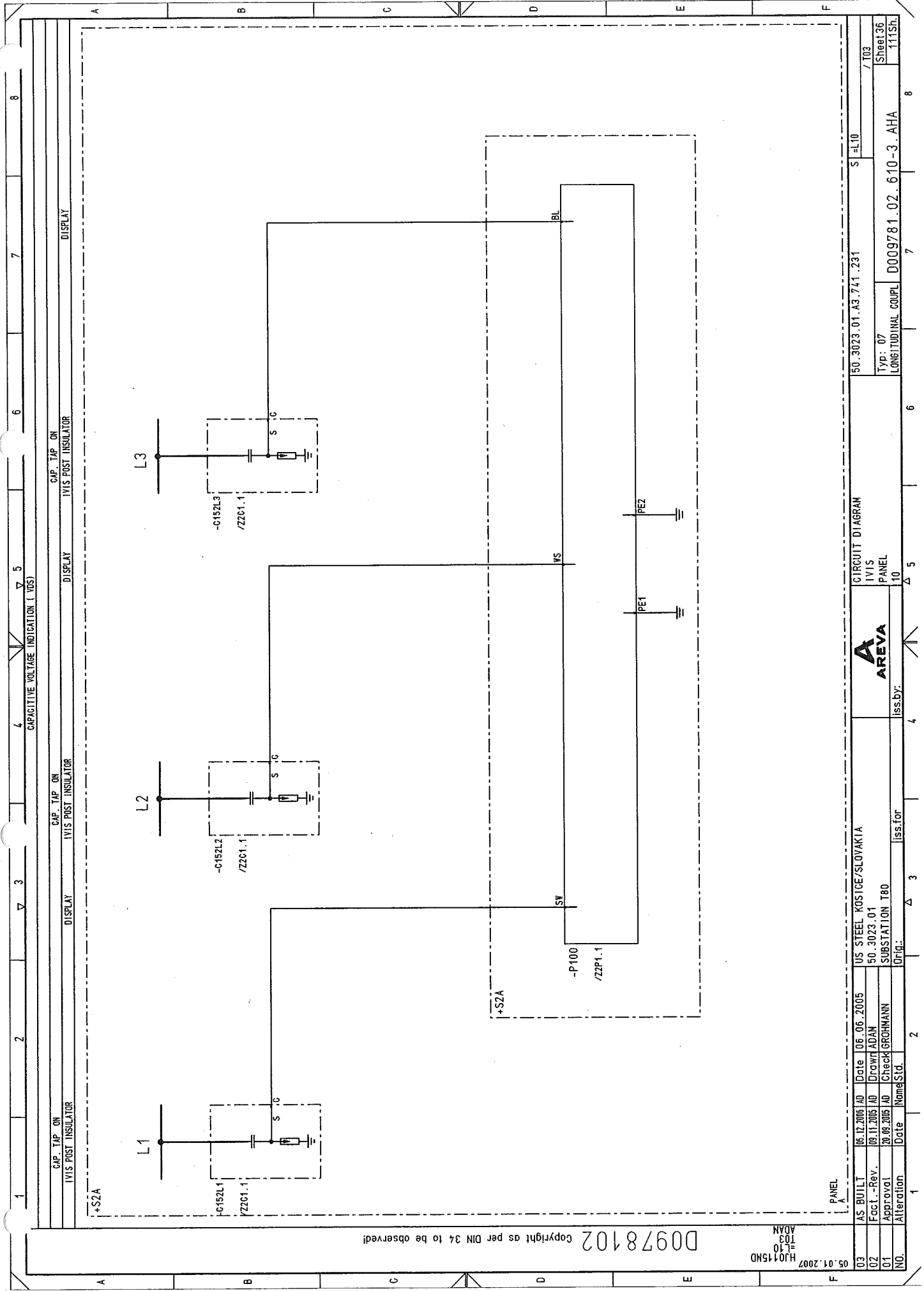
03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01.A3.741.231	S1=L10	/T01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM				Sheet34
01	Approval	20.08.2005	AD	Check	GROHMANN				111Sh.
NO.	Alteration	Date	Name	Sld.	Iss.for	Iss.by:	Typ: 07 LONGITUDINAL COUPL	D009781.02.610-3.AHA	

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L10  
T01  
ADAM

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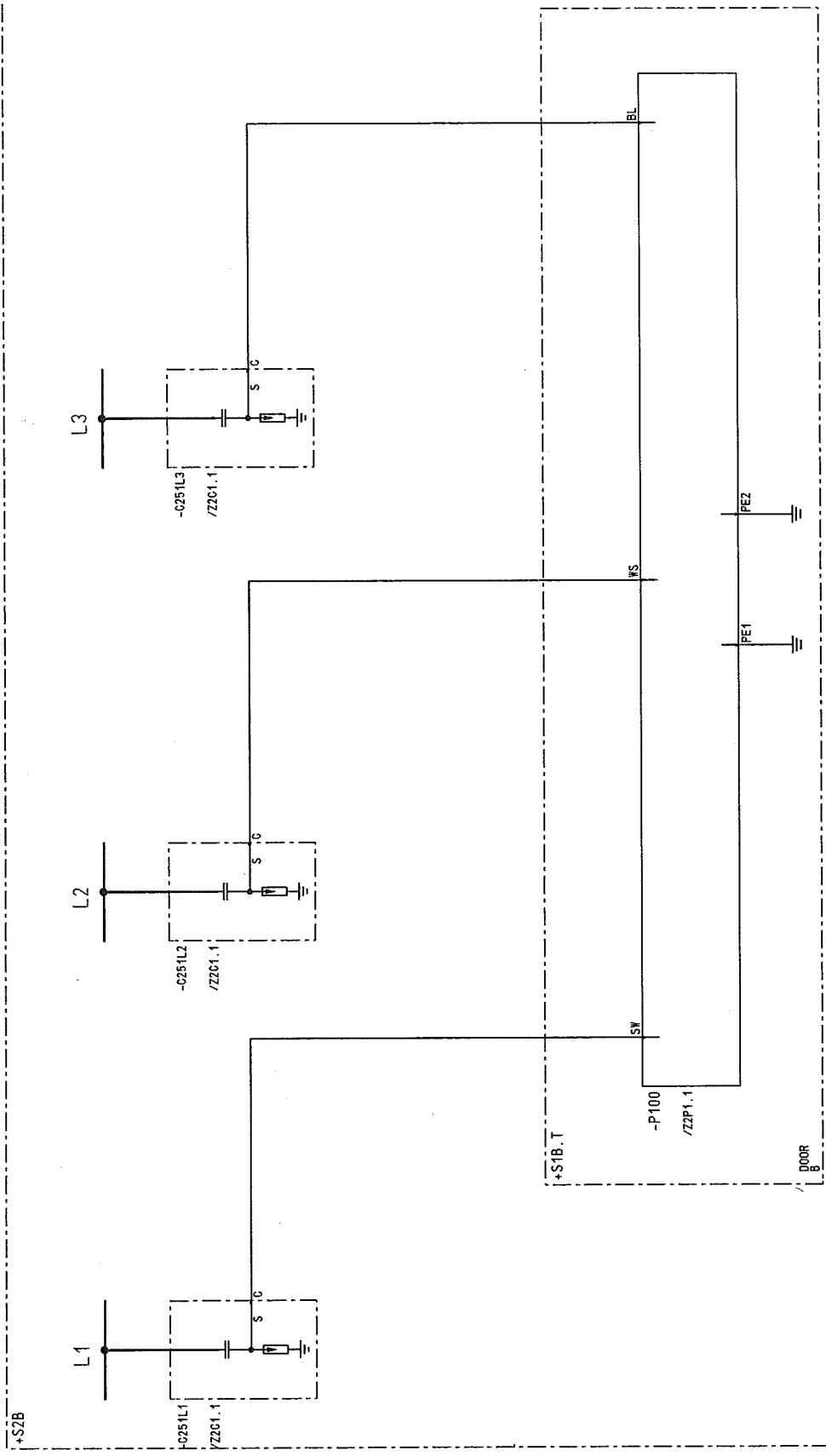


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T03  
ADAM

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.231	S=L10	/ T03
02	Facit. -Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01	IVIS			
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet 36
NO.	Alteration	Date	Name	Std.	2	Onlg.	Iss. for	Iss. by:	4	111Sh.
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					











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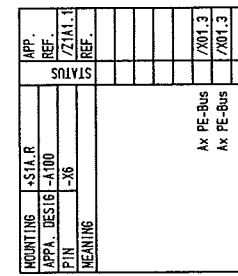
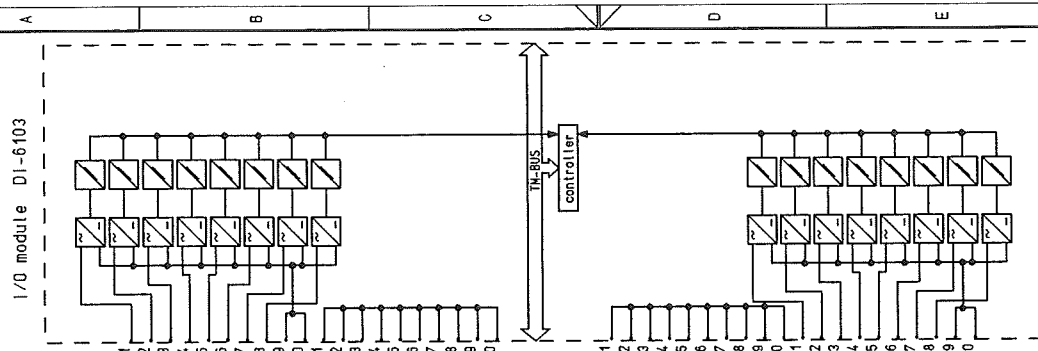
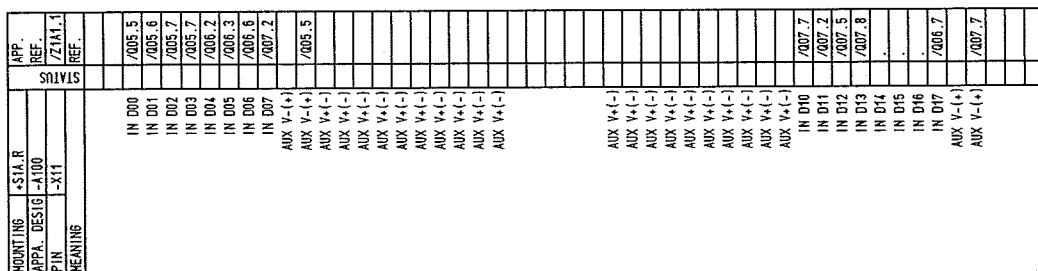
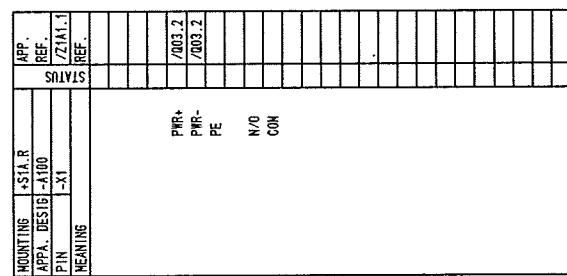
HJ0115MD  
XL10  
X01  
ADAM

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RELAY BOX

The diagram illustrates a control circuit for a relay box. It features two main parallel branches connected to the TXD+ terminal. The first branch contains a single contact labeled LVL. The second branch contains two contacts in series: -A100 and /Z1A1.1. Below these branches, there are additional components including a coil labeled PE-6401 and a timer T1. Various other terminals and inputs are shown along the bottom edge, including L09, S1A.R, X0, X51, X53, X52, X54, TXD+, TXD-, X6 1, and X6 2.

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT	50.3023.01.43.741.231	S=L10	/ ZIA1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAH	50.3023.01					
01	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Type: 07	D009781.02.610-3.AHA	Sheet 42
00	Approval			Date	Name	Sid		iss for	LONGITUDINAL COUPL	1115L	
								01a:			
								iss by:	10		



03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
002	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
001	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION 180
Nº.	Alteration	Date	Named	Std.	Orig.:	Iss.
					?	Δ 3

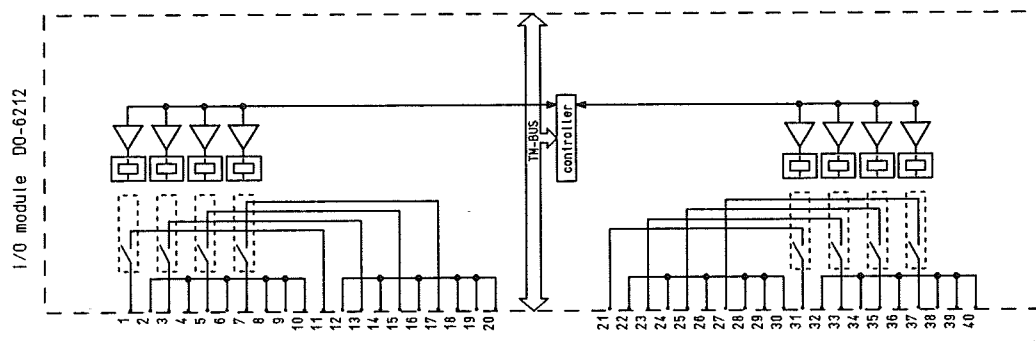
		LIST OF EQUIPMENT
	iss.by:	PANEL
		10
4		Δ 5

50.3023.01.A3.741.231	S = L10	/ Z1A10
Typ: 07	Sheet A3	111Sn.
LONGITUDINAL COUPL	D009781.02.610-3.AHA	8
	7	

APP.	REF.
APPA. DESIG -A100	/Z1A11.1
PIN -X20	REF.
MEANING	

CON00	/NOL.3
AUX VO-	
COM01	/NOL.4
AUX VO-	
COM02	/NOL.4
AUX VO-	
COM03	/NOL.5
AUX VO-	
AUX VO-	
AUX VO-	
OUT D00	/NOL.3
AUX VO+	
OUT D01	/NOL.4
AUX VO+	
OUT D02	/NOL.4
AUX VO+	
OUT D03	/NOL.5
AUX VO+	
AUX VO+	
AUX VO+	
OUT D04	
AUX Y1+	
OUT D05	
AUX Y1+	
OUT D06	
AUX Y1+	
OUT D07	
AUX Y1+	
AUX Y1+	
AUX Y1+	
COM04	
AUX V1-	
COM05	
AUX V1-	
COM06	
AUX V1-	
COM07	
AUX V1-	
AUX V1-	
AUX V1-	



I/O module DO-6212

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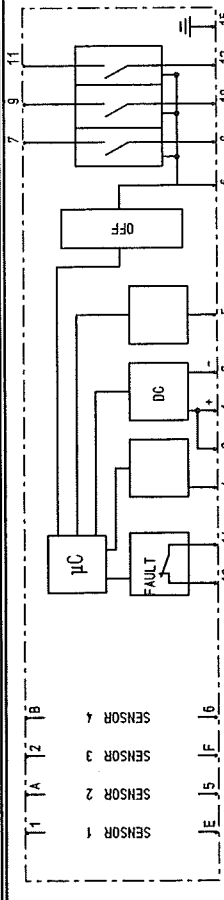
HJ0115ND  
L10  
Z1A11  
ADAM

03	AS BUILT	05.12.2005	AD	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.231	S=L10	/Z1A11
02	Fact.-Rev.	08.11.2005	AD	Drawn ADAM	50.3023.01				Sheet 44
01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80				111Sh.
NO.	Alteration	Date	Name/Sid.	Iss for	Iss by:	PANEL 10	0009781.02.610-3.AHA	Typ: 07 LONGITUDINAL COUPL	

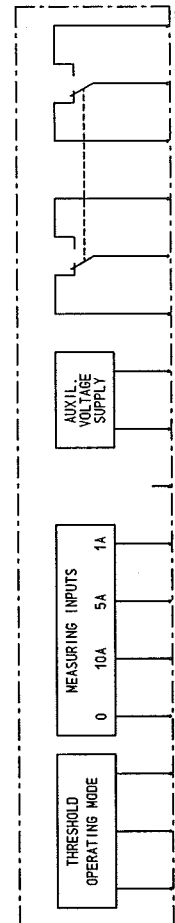


**AREVA**

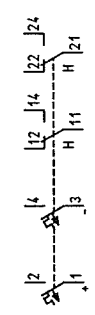
1	2	3	4	5	6	7	8
SHUCK-TITTY	DESCRIPTION, DESIGN, APPLICATION	MANUFACTURER, TYPE, ORDERING DATA	SETTINGS	APPA. DESIG.	WITH REFERENCES TO DETAILS	REFERENCE TO INDIVIDUAL TREATMENT	REMARK
3	ARC DETECTOR DC 24V	MANUF.: AREVA PO NO.: 666622	TYPE ILIS				
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	ARC DETECTOR		*S1A.R	-F310			
	ARC DETECTOR		*S1B.R	-F310			
	ARC DETECTOR		*S1B.R	-F310.1			
2	CURRENT SENSING RELAY MANUF.: ALSTON PO NO.:	TYPE NS 641					
	AUXILIARY VOLTAGE : 230V AC						
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	1 AH/I N MESSEINGANG 1A (EINSTELLWERT) HYSTERESE ANSPRECHVERZOGERUNG 0s						
	APPLICATION	MONITORING	SETTINGS	MONITORING	BTN IDENTIFIER		
	CURRENT	MONITORING	*S1A.R	-F320			
	CURRENT	MONITORING	*S1B.R	-F320			
1	M.C.B. AUXILIARY SWITCH HH	MANUF.: MOELLER PO NO.:	TYPE C 4A				
	RATED CURRENT : 4A	CHARACTERISTIC : C					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	AUXILIARY SWITCH						
	APPLICATION	MONITORING	SETTINGS	MONITORING	BTN IDENTIFIER		
	SIGNALLING		*S1A.R	-F203			



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SENSOR 1	SENSOR 2	SENSOR 3	SENSOR 4											
/H01.3	/H02.2	/H02.3	/H01.4	/H02.6	/H02.7	/H02.8	/H02.9	/H01.5	/H01.6	/H02.1	/H02.3	/H02.6	/H02.7	/H01.3



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/S01.3	/S01.6	/S01.9	/S01.12	/S01.15	/S01.18	/S01.21	/S01.24	/S01.27	/S01.30	/S01.33	/S01.36	/S01.39	/S01.42	/S01.45	/S01.48



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
/H01.3	/H02.2	/H02.3	/H01.4	/H02.6	/H02.7	/H02.8	/H02.9	/H01.5	/H01.6	/H02.1	/H02.3	/H02.6	/H02.7	/H01.3	/H01.4

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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.)		WITH REFERENCES TO DETAILS							
2	STELLUNGSMELDER RUECKWELDER	MANUF.: messMo PO NO.: EST-L-1746-08-330-21 TRENNSCHALTER	TYPE EST-L												
TECHNICAL COMPONENTS		TYP		: GELB		ORDER NO									
APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER									
CIRCUIT-BREAKER ON/OFF				*SIA.T		-H01									
CIRCUIT-BREAKER ON/OFF				*SIA.T		-H02									
2	STELLUNGSMELDER RUECKWELDER	MANUF.: messMo PO NO.: EST-L-1746-08-231-21 SCHALTWAGEN	TYPE EST-L												
TECHNICAL COMPONENTS		TYP		: GELB		ORDER NO									
APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER									
SWITCHING TRUCK SERVICE POS. TEST POS.				*SIA.T		-H01									
SWITCHING TRUCK SERVICE POS. TEST POS.				*SIA.T		-H02									
2	STELLUNGSMELDER RUECKWELDER	MANUF.: messMo PO NO.: EST-L-1746-08-131-21 ERDER	TYPE EST-L												
TECHNICAL COMPONENTS		TYP		: GELB		ORDER NO									
APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER									
EARTHING SWITCH OFF/ON				*SIA.T		-H15									
EARTHING SWITCH OFF/ON				*SIA.T		-H25									

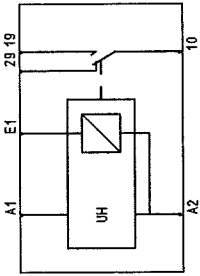
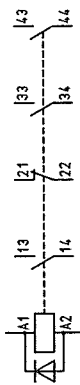
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05.01.2007  
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Z1H1  
ADAM

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT		50.3023.01.A3.741.231		S1=L10		/Z1H1	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01								
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80								
NO.	Alteration	Date	Name	Std.	Iss.	for	iss.by:							
							PANEL		50.3023.01.A3.741.231		S1=L10		/Z1H1	
							10		Typ: 07		50.3023.01.A3.741.231		/Z1H1	
							10		LONGITUDINAL COUPL		D009781.02.610-3.AHA		111Sh.	

03	AS BUILT	05.12.2006	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.231	S=L10	/Z1H1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 07	0009781.02.610-3.AHA	Sheet 47
NO.	Alteration	Date	Name	Std.	Iss.by:	Iss.for	10	LONGITUDINAL COUPL		111Sh.

1		2		3		4		5		6		7		8	
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS		MANUFACTURER, TYPE, ORDERING DATA MOUNTING		APP. DESIG.		APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		REMARK					
1		TIME RELAY OUTPUT PULSE t=50ms		MANUF.: AREVA PO NO.: 701917/1		TYPE C27900									
		FUNCTION TECHNICAL COMPONENTS		RATED VOLTAGE TYP		: 24-240AC/DC		ORDER NO							
		APPLICATION PULSE EXPD.		SETTINGS		MOUNTING +S1A.R		BTM IDENTIFIER -K100							
10		AUXILIARY CONTACTOR		MANUF.: Schneider Electric PO NO.: CA3-KN31 M03		TYPE CA3-KN31 M03									
		RATED VOLTAGE TECHNICAL COMPONENTS		: 220VDC		TYP		ORDER NO							
		APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER							
		C.B. OPEN		+S1A.R		+S1A.R		/NO1.3							
		C.B. CLOSED		+S1A.R		+S1A.R		/NO1.7							
		C.B. OPEN		+S1A.R		+S1A.R		/NO2.6							
		C.B. CLOSED		+S1A.R		+S1A.R		/NO2.5							
		ANTI-PUMPING FEATURE		+S1A.R		+S1A.R		/NO1.7							
		ANTI-PUMPING FEATURE		+S1A.R		+S1A.R		/NO2.6							
				+S1A.R		+S1A.R		/NO3.6							
				+S1A.R		+S1A.R		/NO4.6							
		BUSBAR EARTH RELEASE		+S1A.R		+S1A.R		/PO1.6							
		BUSBAR EARTH RELEASE		+S1B.R		+S1B.R		/PO2.6							

05.01.2007

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03		AS BUILT		05.12.2005		AD		Date		06.06.2005		US STEEL KOSTICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.231		S1-L10		/ ZIK1	
02		Fact.-Rev.		09.11.2005		AD		Drawn		ADAM		50.3023.01									
01		Approval		20.06.2005		AD		Check		GROHMANN		SUBSTATION T80									
NO.		Alteration		Date		Name		Std.		Orig.		Iss.for		Iss.by:		PANEL		LONGITUDINAL COUPL		D009781.02.610-3.AHA	
																10		7		8	

50.3023.01.A3.741.231	S1=L10
Typ: 07	LONGITUDINAL COUPL
D009781.02.610-3.AHA	11TSh.

LIST OF EQUIPMENT	PANEL
10	10



US STEEL KOSICE/SLOVAKIA	iss.by:
50.3023.01	iss.for
SUBSTATION T80	Orig:

AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA
Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
Alteration	Date	Name	Sid.	2	1

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ADAM

**AREVA**

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50_3023_01.A3.747.231	S = L10	/ Z101
02	Fact - Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Type: 07		Sheet50
00	Alteration			Date	NoneStd.	Orig.:	Iss.for	Iss.by:	LONGITUDINAL COUPL	D009781.02.610-3.AHA	111Sh.

50.3023.01.A3.741.231	S=L10	/Z1S1
Typ: 07	D009781.02.610-3.AHA	Sheet 51
LONGITUDINAL COUPL		111Sh.

003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.231	S=L10
022	Fact. -Rev.	09.11.2005	AD	Drown ADAM	50.3023.01						
021	Approval	20.09.2005	AD	Check GROHMANN		SUBSTATION T80		PANEL	Type: 07	0009781.02.610-3.AHA	Sheet 52
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	10	LONGITUDINAL COUPL		111SHL



03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741_231	S=L10
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					/ Z81
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Typ: 07	D009781.02_610-3_AHA	Sheet53
NO	Allocation	Date	Normal	Signature		Origin:	iss by:	10	LONGITUDINAL COUPL	111Sh.	

003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01_A3.74_1_231	S=L10
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
000	Alteration	Date	Name	Sid	Iss for	Iss by:	PANEL		Type: 07	D009781.02_610-3_AHA	
							10		LONGITUDINAL COUPL	111Sh.	

03 AS BUILT 05.12.2005 AD Date 05.06.2005 US STEEL KOSICE/SLOVAKIA

02 Fact.-Rev. 09.11.2005 AD Drawn ADAM 50.3023.01

01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80

NO. Alteration Date Name Sld. Orig. Iss. for Iss. by: PANEL 10

50.3023.01.A3.741.231

Typ: 07 LONGITUDINAL COUPL

D009781.02.610-3.AHA

50.3023.01.A3.741.231

51=L10

7 ZZE1

Sheet 55

111Sh.

05.04.2007

HJ0115MD

L10

ZZE1

ADAM

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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.)	WITH REFERENCES TO DETAILS		REMARK
6	FAN	MANUF.: PO NO.:					
VOLTAGE : 230V AC							
TECHNICAL COMPONENTS		TYP					
		ORDER NO					
APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER				
FAN		*S2A	-E101	/003.2	/003.2		
FAN		*S2A	-E102	/003.4	/003.4		
FAN		*S2A	-E103	/003.6	/003.5		
FAN		*S2B	-E101	/004.2	/004.2		
FAN		*S2B	-E102	/004.4	/004.4		
FAN		*S2B	-E103	/004.6	/004.5		



33	AS BUILT	06.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.231	S=L10	/ Z2S1
32	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01						
31	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Type: 07	Sheet57		
30	Alteration	Date	Name	Sig.		Orig.:		10	LONGITUDINAL COUPL	111Sh.		
29								Iss. for	Iss. by:			

05.04.2007  
L10  
Z211  
ADAM

00978102

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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	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	CURR. TRANSF. 4000/1A	MANUF.: AEG PO NO.:	TYPE CT12				
TECHNICAL COMPONENTS		TYP	ORDER NO				
APPLICATION	SETTINGS	MOUNTING	BTH IDENTIFIER				
CURR. TRANSF. L2	+S2A	-11L2					
CURR. TRANSF. L2	+S2B	-12L2					
				P1 P2 ----- S1 S2			
				/S01.3 /S01.6			

AS BUILT 05.12.2005 AD Date 06.06.2005

02 Fact.-Rev. 09.11.2005 AD Drawn ADAM

01 Approval 20.09.2005 AD Check GROHMANN

NO Alteration Date Name Sld.

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T80

Orig. Iss. for Iss. by:

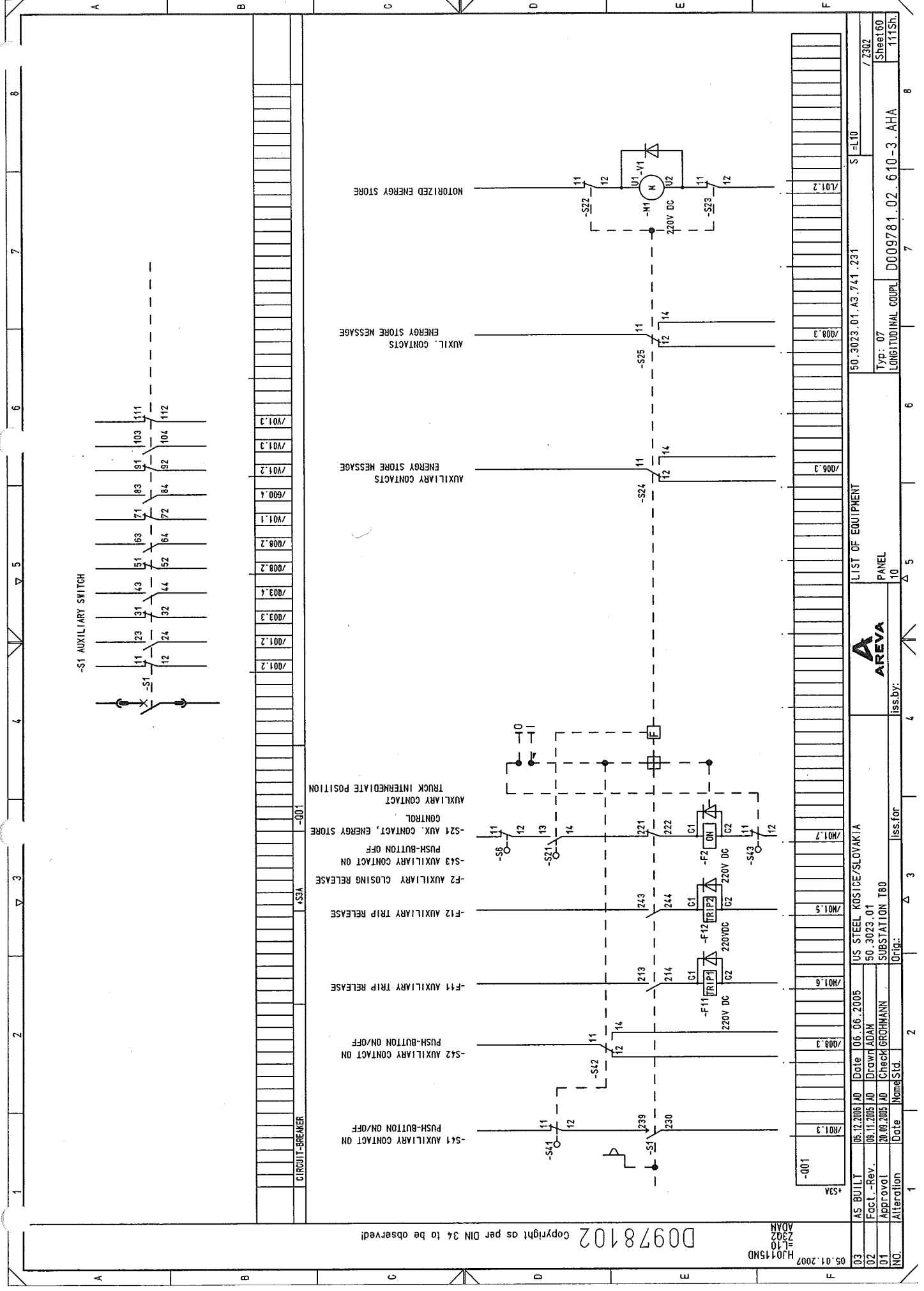
LIST OF EQUIPMENT  
PANEL 10

50.3023.01 A3.741.231 S1=L10  
/ Z211  
Sheet 58  
111Tsh.

Typ: 07  
LONGITUDINAL COUPL D009781.02.610-3. AHA

8

0	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50.3023.01. A3.741. 231	S = L10
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		PANEL		Typ: 07	
AD	Alteration			Drawn/Std				10		LONGITUDINAL COUPL	D009781.02. 610-3. AHA
				Date			iss by:			111Sh.	/ 2301



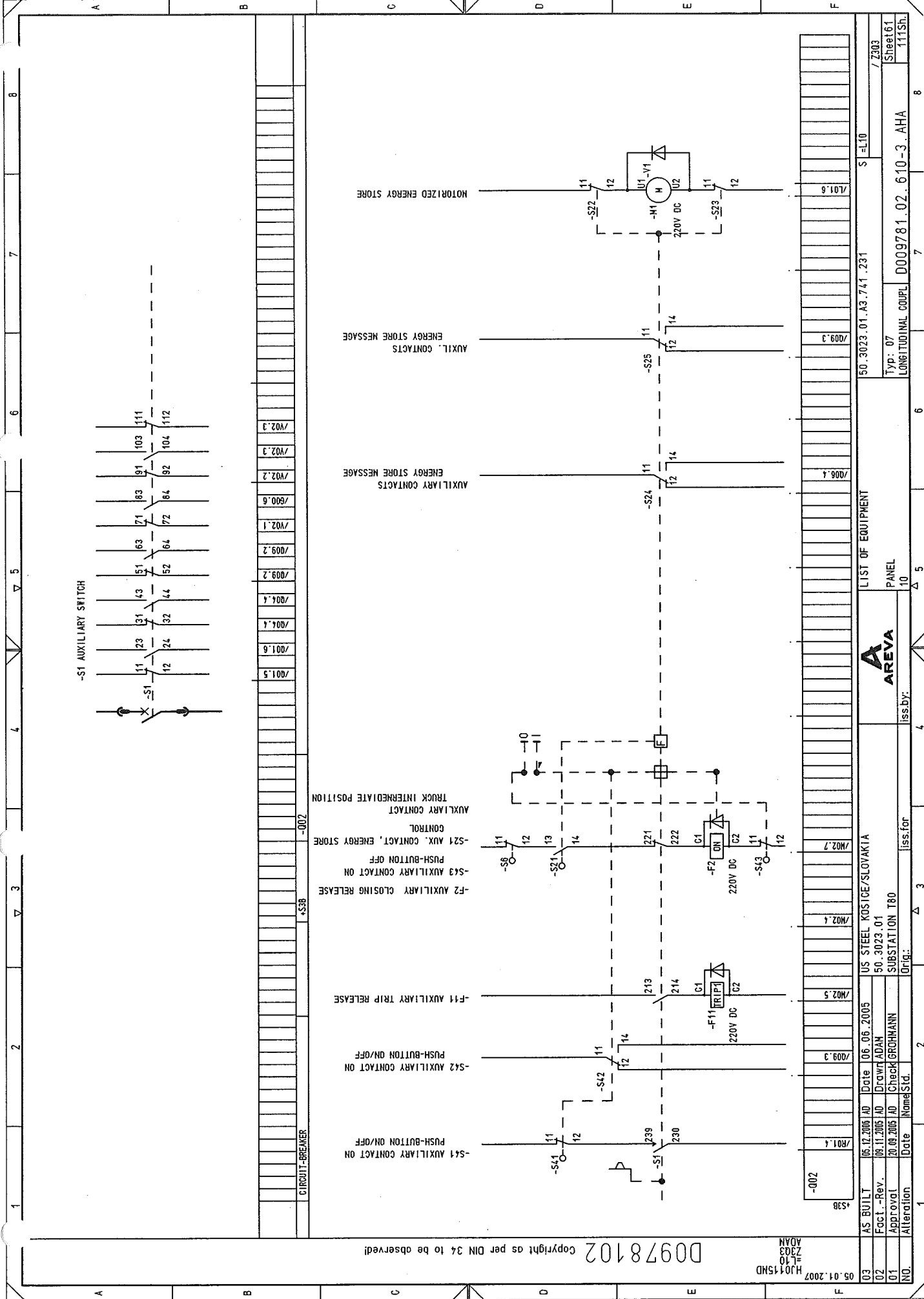
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ADAM

05.01.2007





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05.01.2007  
HJ0115MD  
L10  
Z303  
ADAN

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.231	S=L10	7	8
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01	AREVA	50.3023.01.A3.741.231	7	8	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 07	11TSh.		
NO.	Alteration	Date	Name	Sid.	Iss.by:	Iss.for	Iss.by:	LONGITUDINAL COUPL	D009781.02.610-3.AHA		

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01_A3.741.231	\$=L10	/ ZS1
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01		PANEL		Type: 07	Sheet62	111Sh.
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	iss.by:		10	D009781.02_610-3_AHA		
NO.	Alteration	Date	Name	Std.	Orig.	iss. for						

STÜCK- TITEL	1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT NO., CIRCUIT NO.)						
2 SPERRMAGNET	MANUF.: ALSTON PO NO.: SPERRMAGNET AN SCHALTWAGEN	TYPE						
TECHNICAL COMPONENTS			TYP	ORDER NO.				
APPLICATION			SETTINGS	MOUNTING	BIN IDENTIFIER			
RELEASE			SLIDE-IN MODULE	+SSA	-YI			
RELEASE			SLIDE-IN MODULE	+SSB	-II			
				/P01.f				
				/P02.f				

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 HJ0115MD  
 EL10  
 ZNY4  
 ADAM

US STEEL KOSTICE/SLOVAKIA				LIST OF EQUIPMENT			
AS BUILT	06.12.2005 AD	Date	06.06.2005	50.3023.01		50.3023.01.A3.741.231	
Fact.-Rev.	06.11.2005 AD	Drawn	ADAM	50.3023.01			
Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80			
Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	
				PANEL			
				LONGITUDINAL COUPL			
				D009781.02.610-3.AHA			
				Sheet 63			
				1115h			

1 CABLE WIRES USED SHEET STATE CABLE-TYPE SECTION CORES - ROUTE													4 CIRCUIT DIAGRAM		6 CABLE MATERIAL		7 TERM. TYPE		8	
CABLE MATERIAL													CABLE MATERIAL		CABLE MATERIAL		CABLE MATERIAL		CABLE MATERIAL	
STANDARD:													STANDARD:		STANDARD:		STANDARD:		STANDARD:	
POS.:													POS.:		POS.:		POS.:		POS.:	
0 H07V-K 1.5MM2 SW STANDARD: UK5N													0 H07V-K 1.5MM2 SW STANDARD: UK5N		0 H07V-K 1.5MM2 SW STANDARD: UK5N		0 H07V-K 1.5MM2 SW STANDARD: UK5N		0 H07V-K 1.5MM2 SW STANDARD: UK5N	
2 H07V-K 1.0MM2 SW													2 H07V-K 1.0MM2 SW		2 H07V-K 1.0MM2 SW		2 H07V-K 1.0MM2 SW		2 H07V-K 1.0MM2 SW	
2 H07V-K 2.5MM2 SW													2 H07V-K 2.5MM2 SW		2 H07V-K 2.5MM2 SW		2 H07V-K 2.5MM2 SW		2 H07V-K 2.5MM2 SW	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
INTERN													INTERN		INTERN		INTERN		INTERN	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
REMARK													REMARK		REMARK		REMARK		REMARK	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
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POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
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POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO		NO		NO	
POT													POT		POT		POT		POT	
EXTERNAL													EXTERNAL		EXTERNAL		EXTERNAL		EXTERNAL	
DESTINAT. DESIG.													DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.		DESTINAT. DESIG.	
CORES/ LINE													CORES/ LINE		CORES/ LINE		CORES/ LINE		CORES/ LINE	
NO													NO		NO</					

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM		50.3023.01.A3.741.231		V = L10		
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01			PANEL				+S1A.R	/ K02
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80			10		Typ: 07 LONGITUDINAL COUPL		Sheet 05 111Sh.	
N0	Attention	Date		Normal	Sid	Rel.		Iss for		Iss by:		D009781.02.610-3.AHA		

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM	50_3023_01.A3.741_231	V = L10	+ STA.R	/ K03
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50_3023_01						
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80						
NO.	Alteration	Nome	Sid.	Orig.	Iss for	Iss by:		PANEL	Typ: 07			
								10	LONGITUDINAL COUPL	D009781.02.610-3.AHA		Sheet 66 / 111Sh.

CABLE WIRE USED SHEET STATE CABLE-TYPE SECTION CORES -ROUTE												CIRCUIT DIAGRAM		▽		5		6		7		8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.231	V =L10 +Sta.R	/ K12
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		PANEL	Typ: 07 LONGITUDINAL COUPL	D009781.02.610-3.AHA	Sheet68 111Sh.
AD	Approval	Date	Revised	Drawn	AD	Origin:					

1		2		3		4		5		6		7		8	
NO		CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL	
														Ø	
														COLOR	
														TERM. TYPE	
														STANDARD: UKK63	
														POS.: 0 H05V-K 1.0MM2 SW	
														SW	

Copyright as per DIN 34 to be observed!

05.04.2007

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	TERMINAL DIAGRAM	50.3023.01.A3.741.231	V=L10	/K40
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM		50.3023.01			+SIA.R	/K40
01	Approval	20.03.2005	AD	Check	GROHMANN		SUBSTATION T80				Sheet 71
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:	Or. fig.	Panel	Longitudinal coupl	D009781.02.610-3.AHA	111Sh.

1		2		3		4		5		6		7		8	
NO. CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		TERM. TYPE	
												H07V-K 1.5MM2 SW		STANDARD: UKK83	
												0 H05V-K 1.0MM2 SW			

[illegible]

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_741_231 V = L10 +S1A.R	Sheet 73 111Sh.
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				
00	Alteration	Date	Name	Sid						
						iss for:	PANEL		Typ: 07	Sheet 73
						iss by:	10		LONGITUDINAL COMPL	111Sh.
						Draw:			0009781.02_610-3_AHA	

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50.3023.01.A3.741.231		V = L10
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	30.3023.01		PANEL		Typ: 07		/ K81
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		10		LONGITUDINAL COUPL		Sheet/74
NO.	Alteration	Date		Named	Std.	Orig.	iss. for	iss. by:			0009781.02.610-3.AHA	1115SL

[illegible]

1		2		3		4		5		6		7		8	
CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		TERM. TYPE	
NO.		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
NO.		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
03		AS BUILT		05.12.2005		AD		05.06.2005		US STEEL KOSICE/SLOVAKIA		50.3023.01		V L10	
02		Fact.-Rev.		09.11.2005		AD		Drawn ADAM		50.3023.01		+S1A.R		/K90	
01		Approval		20.08.2005		AD		Check GROHMANN		SUBSTATION T80		Type: 07		Sheet 76	
NO.		Alteration		Date		Name/Sid.		Iss. for		Iss. by:		LONGITUDINAL COUPL		111Sh.	
												D009781.02.610-3. AHA			

RÜCK-REF.		NO.												CORES/LINE		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERNAL		CORES/LINE		REMARK	
		1	2	3	4	5	6	7	8	9	10	11	12																		
/V01.1														=L08		+S1A.R -X9		918													
/600.4														0		-X0		7A		CBF1'											
/V01.2														=L01		+S1A.R -X9		918													
/V01.3																															
/V01.3																															
/V01.4														=L11		+S1A.R -X1		184													
/V01.4																															
/600.4														0		-X9		916													
/V01.5																															
/V01.5																															
/V01.6																															
/V01.6																															
/V01.7																															
/V01.7																+S1A.T -S200		11													
/V01.1														=L01		+S1A.R -X1		138													
/600.4														0		-X9		908													
/V01.2														=L08		+S1A.R -X1		138													
/V01.3																															
/V01.3																															
/V01.4														=L11		+S1A.R -X1		183													
/V01.4																															
/600.4																-X0		8		CBF1'											
/V01.5																															
/V01.5																															
/V01.6																															
/V01.6																															
/V01.7														+S1A.T -S200				10													

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09.01.2007

D00978102



003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.231	V = L10 +SIA.R	/ KPE
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
000	Allocation	09.09.2005	AD	Check	GROHMANN	Origin:	iss for:	PANEL 10	Typ: 07 LONGITUDINAL COUPL	D009781.02.610-3.AHA	Sheet 77 111Sh.

## CROSS CONNECTION

REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	1.5MM2 AC230V.L1	H07V-K SW	-X0	2 -F117	1 -F127	1			
D02	1.5MM2	H07V-K SW		-F320	12 -K320.10	A1			
D02	1.5MM2	H07V-K SW		-F320	15 -K320.11	A1			
D02	1.5MM2	H07V-K SW	-X1	23 -F320	9 -F320	13 -F320	16		
D02	N	BL	-X1	26 -F320	10 -K320.10	A2 -K320.11	A2		
D03	1.5MM2	H07V-K SW		-K101	A1 -K320	18			
D03	1.5MM2	H07V-K SW		-K320	Y1 -K320.10	33			
D03	1.5MM2	H07V-K SW		-K320	22 -K320.10	34			
D03	1.5MM2	H07V-K SW	-X1	22 -K101	1 -K101	3 -K101	5		
D03	1.5MM2	H07V-K SW	-X1	23 -K320	25 -K320.10	13			
D03	1.5MM2	H07V-K SW	-X1	24 -K320	15 -K320	A1			
D03	N	BL	-X1	27 -K101	A2 -K102	A2 -K320	A2		
D03	1.5MM2	H07V-K SW	-X1	34 -K320	28 -K320.10	14			
G01	2.5MM2 DC220V.L+	H07V-K SW	-X0	12 -F102	1 -F105	1 -F111	1 -F121	1 -F214	1 -F224
G01	2.5MM2 DC220V.L-	H07V-K SW	-X0	14 -F102	3 -F105	3 -F111	3 -F121	3 -F214	3 -F224
M01	1.5MM2	H07V-K SW	-X1	122 -K01E	34 -K201	A2			
M01	1.5MM2	H07V-K SW	-X1	136 -K01A	14 -K201	14			
M01	1.5MM2	H07V-K SW	-X1	139 -K01A	13 -K01E	13			
M01	1.5MM2	H07V-K SW	-X1	140 -K01E	14 -K201	13 -K201	21		
M02	1.5MM2	H07V-K SW	-X1	125 -K02E	34 -K202	A2			

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05.01.2007

0978102

05.01.2007

03 AS BUILT 06.12.2005 AD Date 06.06.2005

02 Fact.-Rev. 06.11.2005 AD Drawn ADAN

01 Approval 20.09.2005 AD Check GROHMANN

NO. Alteration Date Name Std.

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig. Iss. for 4

GROSS CONNECT. LIST

RELAY BOX

PANEL

10

50.3023.01.A3.741.231

V=L10

STIA.R

7

0009781.02.610-3.AHA

LONGITUDINAL COUPL

111SH

8

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007

## 1

[illegible]

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CROSS CONNECT. LIST	50.3023.01.A3.741.231	V =L10	+SIA.R	/ Q12	Sheet 80	
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01								
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80								
00	Alteration	Date	Name	Sid										
							iss for:	iss by:	10	Type: 07			LONGITUDINAL COUPL	D009781.02. 610-3. AHA
							Orin:							111Sh.

## CROSS CONNECTION

[illegible]

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

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

A		B		C		
+						+
1	-X1 /L01.2 H05V-K 1.0MM2 SW	-X8 /Q03.4 H05V-K 1.0MM2 SW	822 861	-X1 /N01.5 H05V-K 1.0MM2 SW	145 122	-X3 /Q01.3 H05V-K 1.0MM2 SW
2	-X1 /L01.2 H05V-K 1.0MM2 SW	-X8 /Q03.2 H05V-K 1.0MM2 SW	861 866	-X1 /N01.5 H05V-K 1.0MM2 SW	122 803	-X8 /Q03.5 H05V-K 1.0MM2 SW
3	-X1 /N01.6 H05V-K 1.0MM2 SW	-X8 /Q03.2 H05V-K 1.0MM2 SW	866 867	-X8 /Q03.5 H05V-K 1.0MM2 SW	823	-X8 /Q03.5 H05V-K 1.0MM2 SW
4	-X1 /N01.6 H05V-K 1.0MM2 SW	-X8 /Q03.2 H05V-K 1.0MM2 SW	867 868	-X8 /Q03.5 H05V-K 1.0MM2 SW	825	-X8 /Q03.5 H05V-K 1.0MM2 SW
5	-X1 /N01.7 H05V-K 1.0MM2 SW	-X9 /Q01.1 H05V-K 1.0MM2 SW	901 915	-X0 /P01.2 H05V-K 1.0MM2 SW	909	-X9 /Q01.5 H05V-K 1.0MM2 SW
6	-X1 /N01.7 H05V-K 1.0MM2 SW	-X9 /Q01.1 H05V-K 1.0MM2 SW	915 916	-X0 /P01.2 H05V-K 1.0MM2 SW	923	-X9 /Q01.5 H05V-K 1.0MM2 SW
7	-X8 /Q06.3 H05V-K 1.0MM2 SW	-X9 /Q01.2 H05V-K 1.0MM2 SW	902 916	-X9 /Q01.3 H05V-K 1.0MM2 SW	864	-X8 /Q08.4 H05V-K 1.0MM2 SW
8	-X8 /Q06.3 H05V-K 1.0MM2 SW	-X9 /Q01.2 H05V-K 1.0MM2 SW	916 917	-X9 /Q01.3 H05V-K 1.0MM2 SW	870	-X8 /Q08.4 H05V-K 1.0MM2 SW
9	-X8 /Q06.3 H05V-K 1.0MM2 SW	-X9 /Q01.2 H05V-K 1.0MM2 SW	903 917	-X9 /Q01.3 H05V-K 1.0MM2 SW	910	-X9 /Q01.5 H05V-K 1.0MM2 SW
10	-X4 /R01.3 H05V-K 1.0MM2 SW	-X9 /Q01.2 H05V-K 1.0MM2 SW	917 918	-X9 /Q01.3 H05V-K 1.0MM2 SW	924	-X9 /Q01.5 H05V-K 1.0MM2 SW
11	-X4 /R01.3 H05V-K 1.0MM2 SW	-X9 /Q01.2 H05V-K 1.0MM2 SW	906 906	-X9 /Q01.3 H05V-K 1.0MM2 SW	908	-X9 /Q01.5 H05V-K 1.0MM2 SW
12	-X3 /Q01.2 H05V-K 1.0MM2 SW	-X9 /Q01.4 H05V-K 1.0MM2 SW	920 921	-X9 /Q01.3 H05V-K 1.0MM2 SW	922	-X9 /Q01.5 H05V-K 1.0MM2 SW
13	-X3 /Q01.2 H05V-K 1.0MM2 SW	-X8 /Q08.3 H05V-K 1.0MM2 SW	863 869	-X9 /Q01.6 H05V-K 1.0MM2 SW	183	-X1 /P01.4 H05V-K 1.0MM2 SW
14	-X3 /Q01.2 H05V-K 1.0MM2 SW	-X8 /Q08.3 H05V-K 1.0MM2 SW	869 862	-X9 /Q01.6 H05V-K 1.0MM2 SW	181	-X1 /P01.4 H05V-K 1.0MM2 SW
15	-X8 /Q03.3 H05V-K 1.0MM2 SW	-X8 /Q08.3 H05V-K 1.0MM2 SW	862 868	-X3 /Q01.3 H05V-K 1.0MM2 SW		
16	-X8 /Q03.3 H05V-K 1.0MM2 SW	-X8 /Q08.3 H05V-K 1.0MM2 SW	868 868	-X3 /Q01.3 H05V-K 1.0MM2 SW	323	
+						+

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

05.01.2007  
 H0115ND  
 L10+S1A  
 ADAM

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.231	V	L10	/S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+S1A.R	Sheet 81
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				1115h.
NO.	Alteration	Date	Name	Sid.	Iss for	Iss by:		LONGITUDINAL COUPL	D009781.02.610-3.AHA		
1					2		4	5	6	7	8

# TERMINAL DIA. , 64-POLE , FAN SOCKET

+S1A.R -X101  
CABLE MATERIAL H05V-K 1.0mm2 SW

A			B			C					
+		+									+
1	A01	B01	-X1 /D03.2	C01	31	-X1 /D03.6	D01	30			
2	A02	B02	-X1 /D03.2	C02	25	-XPE /D03.6	D02	PE			
3	A03	B03	-X1 /D03.3	C03	34		D03	H05V-K 1.0MM2 GN/ YE			
4	A04	B04	-X1 /D03.3	C04	37		D04				
5	A05	B05	-X1 /D03.3	C05	26		D05				
6	A06	B06	-XPE /D03.2	C06	PE		D06				
7	A07	B07	-X1 /D03.4	C07	32		D07				
8	A08	B08	-X1 /D03.4	C08	27		D08				
9	A09	B09	-X1 /D03.4	C09	35		D09				
10	A10	B10	-X1 /D03.5	C10	38		D10				
11	A11	B11	-X1 /D03.4	C11	28		D11				
12	A12	B12	-XPE /D03.4	C12	PE		D12				
13	A13	B13	-X1 /D03.5	C13	33		D13				
14	A14	B14	-X1 /D03.5	C14	29		D14				
15	A15	B15	-X1 /D03.6	C15	36		D15				
16	A16	B16	-X1 /D03.7	C16	39		D16				
+											+

03 AS BUILT 05.12.2005 AD Date 06.06.2005		IUS STEEL KOSICE/SLOVAKIA		PLUS DIAGRAM		50.3023.01.A3.741.231		V =L10		+S1A.R		/S101	
02 Fact.-Rev.	09.11.2005 AD	Drawn ADAM	50.3023.01	FAN									
01 Approval	20.09.2005 AD	Check GROHMANN	SUBSTATION T80	PANEL									
NO.	Alteration	Date	Name/Std.	iss.for	iss.by:	10		Typ: 07		LONGITUDINAL COUPL		D009781.02.610-3.AHA	
												Sheet 84	
												111Sh.	

Subject to technical modifications!  
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05.01.2007  
HJ0115ND  
L10+S1A  
S101  
ADAM

D00978102





Copyright as per DIN 34 to be observed

05.01.2007

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	
/M02.4						-X1		146				C09		+S1B.R -X1		110							
/M02.4						-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											
/001.5						-X3		305		102L+		D01		+S1B.R -X3		301							
/001.5						-X3		326				D02		+S1B.R -X3		304							
/001.6						-X3		327				D03		+S1B.R -X3		305							
/001.6						-X3		328				D04		+S1B.R -X3		306							
/001.6						-X3		330				D05		+S1B.R -X3		307							
/004.4						-X8		806		03L+		D06		+S1B.R -X8		801							
/004.4						-X8		828				D07		+S1B.R -X8		811							
/004.4						-X8		829				D08		+S1B.R -X8		812							
/004.5						-X8		830				D09		+S1B.R -X8		813							
/004.5						-X8		832				D10		+S1B.R -X8		814							
/005.5						-X8		839				D11		+S1B.R -X8		815							
/005.6						-X8		840				D12		+S1B.R -X8		816							
/006.4						-X8		845				D13		+S1B.R -X8		817							
/007.3						-X8		849				D14		+S1B.R -X8		819							
/007.3						-X8		851		FAULT		D15		+S1B.R -X8		820							
/007.7						-X8		854				D16		+S1B.R -X8		821							

03

AS BUILT

05.12.2005 AD

Date

06.06.2005

IUS STEEL KOSTICE/SLOVAKIA

50.3023.01

PLUG DIAGRAM

50.3023.01.A3.741.231

V1=L10

02

Fact.-Rev.

09.11.2005 AD

Drawn ADAM

50.3023.01

NIEDERSPG.-SCHR.A-

NIEDERSPG.-SCHR.B

PANEL

10

Typ: 07

LONGITUDINAL COUPL

D009781.02.610-3.AHA

7

8

01

Approval

20.09.2005 AD

Check GROHMANN

Substation T80

Orig:

iss.by:

111Sh.

Sheet 83

111Sh.

NO.

Alteration

Date

Name/Sid.

2

3

4

5

6

7

8

003	AS BUILT	05.12.2006	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM	50_3023_01_A3_747_231	V=L10 +S18.R	/ K01
004	Fact - Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
005	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
006	Alteration	Date	Name	Std.	Iss. for	Orig.					
NNO.					Iss by:						
							10	PANEL	Type: 07 LONGITUDINAL COUPL	D009781.02.610-3.AHA 111SH.	Sheet 66 / K01

003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50_3023_01_A3_741_231	V=L10		
002	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM	50_3023_01						+SIB.R	/K10	
001	Approval	20.09.2005	AD	Checked GROHMANN	SUBSTATION T80				PANEL		Typ: 07		Sheet 87
NO.	Approval		AD	Name/Std	Orig.:	iss.for	iss.by:	10		LONGITUDINAL COUPL	D009781.02_610-3_AHA	111Sh.	

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_741_231	V_L10 +SIB.R.	/ K11
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
01	Approval	20.06.2005	AD	Checked	GROHMANN	SUBSTATION T80		PANEL 10	Typ: 07 LONGITUDINAL COUPL	0009781.02 610-3_AHA 111Tsh.	
N0	Alteration	Date	Name	Sid	Orla:	iss.by:					

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741_231	V=L10 +SIB.R	Sheet 89 / K30
02	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM	50.3023.01						
01	Approval	20.09.2005	AD	CHECK GROHMANN	SUBSTATION T80						
NO	Alteration	Date	Name/Sid	iss for	iss by:	10	PANEL	Typ: 07 LONGITUDINAL COUPL	0009781 02 610-3 AHA	111Sh	

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023-01_A3.741_231	V = 110 +51B.R	Sheet90 111Tsh.
02	Fact.-Rev.	09.11.2005	AD	Drawn/ADAN	50_3023_01						
01	Approval	20.09.2005	AD	Check/GROHMANN		SUBSTATION T80		PANEL	Type: 07		
NO.	Alteration		None/Std.			Orig.:	iss.for:	10	LONGITUDINAL COUPL	D009781.02_610-3_AHA	

**AREVA**

003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.231	V = L10 +SIB.R	Sheet 92 111Sh.
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name	Stid.	Iss	for	iss.by:	PANEL	Typ: 07 LONGITUDINAL COUPL	610-3. AHA	
						Orig.:		10			



**AREVA**

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM	50_3023_01_A3_741_231	V = L10 +SIB.R	Sheet 94 111Sh.
02	Fact. - Rev.	03.11.2005	AD	Drawn	ADAM	50_3023_01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80					
INC.	Alteration			Name/Std		Orig.:	Iss. for	iss. by:	10	Typ: 07 LONGITUDINAL COUPL	D009781.02. 610-3. AHA

CROSS CONNECTION											6		7		8	
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6							
D02	1 1.5MM2	H07V-K SW		-F320	12 -K320.10	A1										
D02	1 1.5MM2	H07V-K SW		-F320	15 -K320.11	A1										
D02	127L1 1 1.5MM2	H07V-K SW	-X1	23 -F320	9 -F320	13 -F320	16									
D02	N	BL	-X1	26 -F320	10 -K320.10	A2	-K320.11	A2								
D04	1 1.5MM2	H07V-K SW		-K101	A1 -K320	18										
D04	1 1.5MM2	H07V-K SW		-K320	Y1 -K320.10	33										
D04	1 1.5MM2	H07V-K SW		-K320	Z2 -K320.10	34										
D04	127L1 1 1.5MM2	H07V-K SW	-X1	22 -K101	1 -K101	3 -K101	5									
D04	127L1 1 1.5MM2	H07V-K SW	-X1	23 -K320	25 -K320.10	13										
D04	127L1 1 1.5MM2	H07V-K SW	-X1	24 -K320	15 -K320	A1										
D04	N	BL	-X1	27 -K101	A2 -K102	A2	-K320	A2								
D04	1 1.5MM2	H07V-K SW	-X1	34 -K320	28 -K320.10	14										
M02	102L+ 1 1.5MM2	H07V-K SW	-X1	125 -F310	7 -F310.1	7										
M02	1 1.5MM2	H07V-K SW	-X1	126 -F310	8 -F310.1	8										
N01	1 1.5MM2	H07V-K SW	-X1	141 -F310	1 -F310.1	1										
N01	1 1.5MM2	H07V-K SW	-X1	143 -F310	4 -F310.1	4										
N01	1 1.5MM2	H07V-K SW	-X1	144 -F310	2 -F310.1	2										
P02	1 1.5MM2	H07V-K SW		-K25	13 -K25	34										
P02	1 1.5MM2	H07V-K SW		-K25	33 -K25	44										
P02	1 1.5MM2	H07V-K SW		-K25	A1 -S251	11										

03 AS BUILT 05.12.2005 AD Date 06.06.2005

02 Fact. -Rev. 06.11.2005 AD Drawn ADAM

01 Approval 20.08.2005 AD Check GROCHMANN

NO Alteration Date Name Std.

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Origi:

50.3023.01.A3.741.231

RELAY BOX

PANEL

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50.3023.01.A3.741.231

LONGITUDINAL COUPL

D009781.02.610-3.AHA

111Sh.

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Copyright as per DIN 34 to be observed

03.01.2007

D0978102

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST	150.3023.01.A3.741.231	V	10
02	Fact.-Rev.	09.11.2005 AD	Date	06.06.2005	DRAWN ADAM	RELAY BOX			
01	Approval	20.06.2005 AD	Date	06.06.2005	CHECK GROHMANN	PANEL			
NO.	Alteration		Date						
					Iss. by:	10	6	7	8
					Iss. for:	3	4	5	
					Orig:	1	2		
					Substation T80				
					Typ: 07	LONGITUDINAL COUPL	D009781.02.610-3.AHA		
					Sheet 95				
					111Sh.				



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

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

A				B				C				+				
1	-X1 /001.6	H05V-K	1.0MM2 SW	101	-X8 /004.4	H05V-K	1.0MM2 SW	812	-X1 /002.4	H05V-K	1.0MM2 SW	110	-X3 /001.6	H05V-K	1.0MM2 SW	307
2	-X1 /001.6	H05V-K	1.0MM2 SW	102	-X8 /009.2	H05V-K	1.0MM2 SW	831	-X1 /002.4	H05V-K	1.0MM2 SW	111	-X8 /004.5	H05V-K	1.0MM2 SW	802
3	-X1 /002.5	H05V-K	1.0MM2 SW	121	-X8 /009.2	H05V-K	1.0MM2 SW	836	-X8 /004.5	H05V-K	1.0MM2 SW		-X8 /004.5	H05V-K	1.0MM2 SW	813
4	-X1 /002.5	H05V-K	1.0MM2 SW	123	-X8 /009.2	H05V-K	1.0MM2 SW	837	-X8 /004.5	H05V-K	1.0MM2 SW		-X8 /004.5	H05V-K	1.0MM2 SW	814
5	-X1 /002.6	H05V-K	1.0MM2 SW	122	-X9 /002.1	H05V-K	1.0MM2 SW	901	-X0 /002.2	H05V-K	1.0MM2 SW	025	-X9 /002.5	H05V-K	1.0MM2 SW	909
6	-X1 /002.7	H05V-K	1.0MM2 SW	124	-X9 /002.1	H05V-K	1.0MM2 SW	913	-X0 /002.2	H05V-K	1.0MM2 SW	027	-X9 /002.5	H05V-K	1.0MM2 SW	921
7	-X8 /006.4	H05V-K	1.0MM2 SW	804	-X9 /002.2	H05V-K	1.0MM2 SW	902	-X8 /009.4	H05V-K	1.0MM2 SW		-X8 /009.4	H05V-K	1.0MM2 SW	834
8	-X8 /006.4	H05V-K	1.0MM2 SW	817	-X9 /002.2	H05V-K	1.0MM2 SW	914	-X8 /009.4	H05V-K	1.0MM2 SW		-X8 /009.4	H05V-K	1.0MM2 SW	840
9	-X8 /006.4	H05V-K	1.0MM2 SW	818	-X9 /002.2	H05V-K	1.0MM2 SW	903	-X9 /002.3	H05V-K	1.0MM2 SW	904	-X9 /002.5	H05V-K	1.0MM2 SW	910
10	-X4 /001.4	H05V-K	1.0MM2 SW	401	-X9 /002.2	H05V-K	1.0MM2 SW	915	-X9 /002.3	H05V-K	1.0MM2 SW	916	-X9 /002.5	H05V-K	1.0MM2 SW	922
11	-X4 /001.4	H05V-K	1.0MM2 SW	402	-X9 /002.4	H05V-K	1.0MM2 SW	906	-X9 /002.3	H05V-K	1.0MM2 SW	905	-X9 /002.4	H05V-K	1.0MM2 SW	908
12	-X3 /001.5	H05V-K	1.0MM2 SW	301	-X9 /002.4	H05V-K	1.0MM2 SW	918	-X9 /002.3	H05V-K	1.0MM2 SW	917	-X9 /002.4	H05V-K	1.0MM2 SW	920
13	-X3 /001.5	H05V-K	1.0MM2 SW	304	-X8 /009.3	H05V-K	1.0MM2 SW	833	-X9 /002.6	H05V-K	1.0MM2 SW	911	-X1 /002.4	H05V-K	1.0MM2 SW	183
14	-X3 /001.6	H05V-K	1.0MM2 SW	305	-X8 /009.3	H05V-K	1.0MM2 SW	839	-X9 /002.6	H05V-K	1.0MM2 SW	923	-X1 /002.4	H05V-K	1.0MM2 SW	181
15	-X8 /004.4	H05V-K	1.0MM2 SW	801	-X8 /009.3	H05V-K	1.0MM2 SW	832	-X3 /001.6	H05V-K	1.0MM2 SW	302	-X3 /002.4	H05V-K	1.0MM2 SW	
16	-X8 /004.4	H05V-K	1.0MM2 SW	811	-X8 /009.3	H05V-K	1.0MM2 SW	838	-X3 /001.6	H05V-K	1.0MM2 SW	306	-X3 /002.4	H05V-K	1.0MM2 SW	
+																+

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

05.01.2007  
H1015ND  
L10+S1B  
ADAM

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	PLUS DIAGRAM		150.3023.01.A3.741.231	V	+L10
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		CIRCUIT-BREAKER			V	+S1B.R
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL				
NO.	Alteration	Date	Name	Std.	Iss.for	Iss.by:	10		LONGITUDINAL COUPL	D009781.02.610-3.AHA		
										Typ: 07	Sheet 97	
										1115sh.		

# TERMINAL DIA. , 64-POLE , FAN SOCKET

+S1B.R -X201  
CABLE MATERIAL H05V-K 1.0mm2 SW

+		A				B				C				+	
1	A01				B01		-X1 /D04.2	C01	31	-X1 /D04.6	D01	30	1		
2	A02				B02		-X1 /D04.2	C02	25	-XPE /D04.6 H05V-K 1.0MM2 GN/ YE	D02	PE	2		
3	A03				B03		-X1 /D04.3	C03	34		D03		3		
4	A04				B04		-X1 /D04.3	C04	37		D04		4		
5	A05				B05		-X1 /D04.3	C05	26		D05		5		
6	A06				B06		-XPE /D04.2 H05V-K 1.0MM2 GN/ YE	C06	PE		D06		6		
7	A07				B07		-X1 /D04.4	C07	32		D07		7		
8	A08				B08		-X1 /D04.4	C08	27		D08		8		
9	A09				B09		-X1 /D04.4	C09	35		D09		9		
10	A10				B10		-X1 /D04.5	C10	38		D10		10		
11	A11				B11		-X1 /D04.4	C11	28		D11		11		
12	A12				B12		-XPE /D04.4 H05V-K 1.0MM2 GN/ YE	C12	PE		D12		12		
13	A13				B13		-X1 /D04.5	C13	33		D13				
14	A14				B14		-X1 /D04.5	C14	29		D14				
15	A15				B15		-X1 /D04.6	C15	36		D15				
16	A16				B16		-X1 /D04.7	C16	39		D16		16		
+														+	

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

HJ0115ND  
S101  
10+S1B

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUS DIAGRAM	150.3023.01.A3.741.231	V	-L10	/S101
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	FAN			+S1B.R	/S101
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 98
NO.	Alteration	Date	Name	Std.	Iss.for	Iss.by:	10	LONGITUDINAL COUPL	D009781.02.610-3.AHA	Typ: 07	111Sh

## CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D03	(Aderverbindung) N			C01 -E101	1				A
D03	(Aderverbindung)			C02 -E101	2				
D03	(Aderverbindung)			C03 -B101	3				
D03	(Aderverbindung) N			C04 -B101	4				B
D03	(Aderverbindung)			C05 -B101	5				
D03	(Aderverbindung)			C06 -E101	PE				
D03	(Aderverbindung) N			C07 -E102	1				
D03	(Aderverbindung)			C08 -E102	2				C
D03	(Aderverbindung)			C09 -B102	3				
D03	(Aderverbindung) N			C10 -B102	4				
D03	(Aderverbindung)			C11 -B102	5				D
D03	(Aderverbindung)			C12 -E102	PE				
D03	(Aderverbindung) N			C13 -E103	1				
D03	(Aderverbindung)			C14 -E103	2				
D03	(Aderverbindung)			C15 -B103	3				E
D03	(Aderverbindung) N			C16 -B103	4				
D03	(Aderverbindung)			D01 -B103	5				
D03	(Aderverbindung)			D02 -E103	PE				
D03									
D03									F

03 AS BUILT 06.12.2005 AD Date 06.06.2005 US STEEL KOSICE/SLOVAKIA

02 Fact.-Rev. 08.11.2005 AD Drawn ADAM 50.3023.01

01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80

NQ Alteration Date Name Sld. Iss. for

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# TERMINAL DIA., 64 POLIG., FAN PIN

+S2A -X101  
CABLE MATERIAL H05V-K 1.0mm2 SW

A		B		C		D		+
1	A01	B01	-E101 /D03.2	1	1	-B103 /D03.6	1	5
2	A02	B02	-E101 /D03.2	2	2	-E103 /D03.6	2	PE GN/ YE
3	A03	B03	-B101 /D03.3	3	3		3	
4	A04	B04	-B101 /D03.3	4	4		4	
5	A05	B05	-B101 /D03.3	5	5		5	
6	A06	B06	-E101 /D03.2	PE GN/ YE	PE GN/ YE		6	
7	A07	B07	-E102 /D03.4	1	1		7	
8	A08	B08	-E102 /D03.4	2	2		8	
9	A09	B09	-B102 /D03.4	3	3		9	
10	A10	B10	-B102 /D03.5	4	4		10	
11	A11	B11	-B102 /D03.4	5	5		11	
12	A12	B12	-E102 /D03.4	PE GN/ YE	PE GN/ YE		12	
13	A13	B13	-E103 /D03.5	1	1		13	
14	A14	B14	-E103 /D03.5	2	2		14	
15	A15	B15	-B103 /D03.6	3	3		15	
16	A16	B16	-B103 /D03.7	4	4		16	
								+

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

D0978102

05.01.2007  
HJ0115NO  
S101  
ADAM

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	150.3023.01.A3.741.231	V	-L10	/S101
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	FAN			+S2A	/S101
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 100
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:	10	LONGITUDINAL COUPL	D09781.02.610-3.AHA	111Sh.	



CROSS CONNECTION										1	2	3	4	5	6	7	8										
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6	A	B	C	D	E	F												
004	(Aderverbindung) N		-X201	C01 -E101	1																						
004	(Aderverbindung)		-X201	C02 -E101	2																						
004	(Aderverbindung)		-X201	C03 -B101	3																						
004	(Aderverbindung)		-X201	C04 -B101	4																						
004	(Aderverbindung) N		-X201	C05 -B101	5																						
004	(Aderverbindung)		-X201	C06 -E101	PE																						
004	(Aderverbindung) N		-X201	C07 -E102	1																						
004	(Aderverbindung)		-X201	C08 -E102	2																						
004	(Aderverbindung)		-X201	C09 -B102	3																						
004	(Aderverbindung) N		-X201	C10 -B102	4																						
004	(Aderverbindung)		-X201	C11 -B102	5																						
004	(Aderverbindung)		-X201	C12 -E102	PE																						
004	(Aderverbindung) N		-X201	C13 -E103	1																						
004	(Aderverbindung)		-X201	C14 -E103	2																						
004	(Aderverbindung)		-X201	C15 -B103	3																						
004	(Aderverbindung) N		-X201	C16 -B103	4																						
004	(Aderverbindung)		-X201	D01 -B103	5																						
004	(Aderverbindung)		-X201	D02 -E103	PE																						
										GROSS CONNECT. LIST						50.3023.01.A3.741.231		V	-L10	+S2B	/ 020						
										AREVA						PANEL		PANEL		Typ: 07		LONGITUDINAL COUPL		D009781.02.610-3.AHA		Sheet 101	111Sh.
										iss.by:						iss.for		10		6		7		8			
										US STEEL KOSTICE/SLOVAKIA						50.3023.01		SUBSTATION T80		Orig.:							
										Date 06.06.2005						Drawn ADAM		Check GROHMANN		Date 20.09.2005		Name Std.					
										AS BUILT						Fact.-Rev.		Approval		Alteration							
										03						02		01		NO.							
										05.01.2007						H30115ND		=10+S2B		ADAM							

Copyright as per DIN 34 to be observed!

D0978102

05.01.2007  
H10115ND  
L10+S2B  
ADAN

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO	Alteration	Date	Name	Iss.	for	Orig.



GROSS CONNECT. LIST

150.3023.01.A3.741.231

V -L10

+S2B

7/820

Typ: 07

LONGITUDINAL COUPL

D009781.02.610-3.AHA

111Sh.

Sheet 101

# TERMINAL DIA., 64 POLIG., FAN PIN

+S2B -X201  
CABLE MATERIAL H05V-K 1.0mm2 SW

A		B		C		D		+
1	A01	B01	-E101 /004.2	C01	1	-B103 /004.6	1	5
2	A02	B02	-E101 /004.2	C02	2	-E103 /004.6	2	PE
3	A03	B03	-B101 /004.3	C03	3		3	GN/ YE
4	A04	B04	-B101 /004.3	C04	4		4	
5	A05	B05	-B101 /004.3	C05	5		5	
6	A06	B06	-E101 /004.2	C06	PE GN/ YE			
7	A07	B07	-E102 /004.4	C07	1		1	
8	A08	B08	-E102 /004.4	C08	2		2	
9	A09	B09	-B102 /004.4	C09	3		3	
10	A10	B10	-B102 /004.5	C10	4		4	
11	A11	B11	-B102 /004.4	C11	5		5	
12	A12	B12	-E102 /004.4	C12	PE GN/ YE			
13	A13	B13	-E103 /004.5	C13	1		1	
14	A14	B14	-E103 /004.5	C14	2		2	
15	A15	B15	-B103 /004.6	C15	3		3	
16	A16	B16	-B103 /004.7	C16	4		4	
								+

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

HJ0115MD  
S101  
+S2B

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GRUHMANN	SUBSTATION T80
NO.	Alteration	Date	Nome	Std.	Iss. for	Orig.



PLUG DIAGRAM  
FAN  
PANEL

150.3023.01.A3.741.231	V	=L10
		+S2B
Typ: 07	LONGITUDINAL COUPL	D009781.02.610-3.AHA

Sheet 102  
1115h.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
L01	111L+ 0 1.0MM2	H05V-K SW	-X01	A01 -S22	-001 11				
L01	111L- 0 1.0MM2	H05V-K SW	-X01	A02 -S23	-001 12				
M01	0 1.0MM2	H05V-K SW	-F2	-001 C1 -S1	-001 222				
M01	0 1.0MM2	H05V-K SW	-F2	-001 C2 -S43	-001 11				
M01	0 1.0MM2	H05V-K SW	-S1	-001 221 -S21	-001 14				
M01	0 1.0MM2	H05V-K SW	-S21	-001 13 -S6	-001 12				
M01	0 1.0MM2	H05V-K SW	-X01	A03 -S1	-001 213				
M01	102L- 0 1.0MM2	H05V-K SW	-X01	A04 -F11	-001 C2				
M01	0 1.0MM2	H05V-K SW	-X01	A05 -S6	-001 11				
M01	0 1.0MM2	H05V-K SW	-X01	A06 -S43	-001 12				
P01	0 1.0MM2	H05V-K SW	-S1	-01 32 -S61	14				
P01	0 1.0MM2	H05V-K SW	-X01	C05 -S1	-01 31				
P01	BUSBAR ES.RELEASE 0 1.0MM2	H05V-K SW	-X01	C06 -S61	11				
P01	0 1.0MM2	H05V-K SW	-X01	D13 -Y1	E1				
P01	214L- 0 1.0MM2	H05V-K SW	-X01	D14 -Y1	E2				
Q01	102L+ 0 1.0MM2	H05V-K SW	-X01	A12 -S1	-001 11 -S1	-001 23			
Q01	0 1.0MM2	H05V-K SW	-X01	A13 -S1	-001 12				
Q01	0 1.0MM2	H05V-K SW	-X01	A14 -S1	-001 24				
Q01	102L+ 0 1.0MM2	H05V-K SW	-X01	C15 -S1	-01 11 -S1	-01 13			
Q01	0 1.0MM2	H05V-K SW	-X01	C16 -S1	-01 12				
Copyright as per DIN 34 to be observed									
D00978102									
HJ0115NO 030 ADAM									
05.01.2007									
GROSS CONNECT. LIST									
SWITCHING TRUCK									
PANEL									
50.3023.01.A3.741.231									
V -L10									
+SSA									
/ 030									
Sheet 103									
Typ: 07									
LONGITUDINAL COUPL									
D009781.02.610-3.AHA									
111Sh.									

Copyright as per DIN 34 to be observed!

D00978102

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
001	0 1.0MM2	H05V-K SW	-X01	D01 -S1	-Q1 14				
003	0 03L+ 0 1.0MM2	H05V-K SW	-X01	A15 -S1	-001 31 -S1	-001 43			
003	0 1.0MM2	H05V-K SW	-X01	A16 -S1	-001 32				
003	0 1.0MM2	H05V-K SW	-X01	B01 -S1	-001 44				
003	0 03L+ 0 1.0MM2	H05V-K SW	-X01	D02 -S1	-Q1 21 -S1	-Q1 23			
003	0 1.0MM2	H05V-K SW	-X01	D03 -S1	-Q1 22				
003	0 1.0MM2	H05V-K SW	-X01	D04 -S1	-Q1 24				
006	0 03L+ 0 1.0MM2	H05V-K SW	-X01	A07 -S24	-001 11				
006	0 1.0MM2	H05V-K SW	-X01	A08 -S24	-001 12				
006	0 1.0MM2	H05V-K SW	-X01	A09 -S24	-001 14				
008	0 1.0MM2	H05V-K SW	-X01	B02 -S1	-001 51 -S1	-001 63			
008	0 1.0MM2	H05V-K SW	-X01	B03 -S1	-001 52				
008	0 1.0MM2	H05V-K SW	-X01	B04 -S1	-001 64				
008	0 1.0MM2	H05V-K SW	-X01	B13 -S42	-001 11				
008	0 1.0MM2	H05V-K SW	-X01	B14 -S42	-001 14				
008	0 1.0MM2	H05V-K SW	-X01	B15 -S25	-001 11				
008	0 1.0MM2	H05V-K SW	-X01	B16 -S25	-001 14				
008	0 1.0MM2	H05V-K SW	-X01	D07 -S1	-Q1 33				
008	0 1.0MM2	H05V-K SW	-X01	D08 -S1	-Q1 34				
R01	0 1.0MM2	H05V-K SW	-X01	A10 -S41	-001 11				

05.01.2007

H1015MD

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Copyright as per DIN 34 to be observed!

03  
10+33A  
HJ0115ND  
ADAM

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Drawn	Issued	Issued for	Orig.



CROSS CONNECTION LIST  
SWITCHING TRUCK  
PANEL

50.3023.01.A3.741.231  
Typ: 07  
LONGITUDINAL COUPL

Sheet 104  
111Sh.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
R01	0 1.0MW2	H05V-K SW	-X01	A11 -S1	-001 230				
V01	0 1.0MW2	H05V-K SW	-S1	-Q1 42 -S62	14				
V01	0 1.0MW2	H05V-K SW	-X01	B05 -S1	-001 71				
V01	0 1.0MW2	H05V-K SW	-X01	B06 -S1	-001 72				
V01	0 1.0MW2	H05V-K SW	-X01	B07 -S1	-001 83				
V01	0 1.0MW2	H05V-K SW	-X01	B08 -S1	-001 84				
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	-Q1 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	-Q1 51				
V01	0 1.0MW2	H05V-K SW	-X01	D06 -S1	-Q1 52				
V01	0 1.0MW2	H05V-K SW	-X01	D09 -S1	-Q1 61				
V01	0 1.0MW2	H05V-K SW	-X01	D10 -S1	-Q1 62				
05.01.2007				GROSS CONNECT. LIST			50.3023.01.A3.741.231		
03				US STEEL KOSICE/SLOVAKIA			V=L10		
02				Date 10.06.2005			+SSA		
02				Drawn ADAM			/032		
01				Check GROHMANN			Typ: 07		
01				Substation T80			LONGITUDINAL COUPL		
01				Iss. by:			D009781.02.610-3.AHA		
01				Iss. for			111Sh		
01				Orig.			Sheet 105		
01				Date			111Sh		
01				NomStd			/032		
01				Date			Sheet 105		
01				Date			111Sh		

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D0978102  
H0115MD  
032  
ADAM

## CROSS CONNECTION

[illegible]

CROSS CONNECT. LIST  
SWITCHING TRUCK

**AREVA**

 $\gamma$ 

US STEEL KOSICE/SLOVAKIA

50.3023.01  
SURSTATION T80

iss. for

Date	06.06.2005
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Drawn	ADAM
Checked	GRUHM

**Std**

05.12.2006

09.11.2005	20.09.2005
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20.03.2009	Date
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**AS BUILT**

**Fact. - Re**

Alteration

+S3A	-X01
CABLE MATERIAL	H05V-K 1.0mm2 SW

003	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM CIRCUIT-BREAKER PANEL	50_3023_01_A3.74.1_231	V L=10	Sheet 107 111Sh.
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
000	Attention	09.08.2005	AD	Name/Sir		Origin			iss for	iss by:	
								10	Type: 07 LONGITUDINAL COUPL	D009781.02. 610-3. 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	
L01	121L+ 0 1.0MM2	H05V-K SW	-X02	A01 -S22	-002 11					
L01	121L- 0 1.0MM2	H05V-K SW	-X02	A02 -S23	-002 12					
M02	0 1.0MM2	H05V-K SW	-F11	-002 C1 -S1	-002 214					
M02	0 1.0MM2	H05V-K SW	-F2	-002 C1 -S1	-002 222					
M02	0 1.0MM2	H05V-K SW	-S21	-002 13 -S6	-002 12					
P02	0 1.0MM2	H05V-K SW	-S1	-02 32 -S61	14					
P02	0 1.0MM2	H05V-K SW	-X02	C05 -S1	-02 31					
P02	BUSBAR ES.RELEASE 0 1.0MM2	H05V-K SW	-X02	C06 -S61	11					
P02	0 1.0MM2	H05V-K SW	-X02	D13 -Y1	E1					
P02	224L- 0 1.0MM2	H05V-K SW	-X02	D14 -Y1	E2					
001	102L+ 0 1.0MM2	H05V-K SW	-X02	A12 -S1	-002 11 -S1	-002 23				
001	0 1.0MM2	H05V-K SW	-X02	A13 -S1	-002 12					
001	0 1.0MM2	H05V-K SW	-X02	A14 -S1	-002 24					
001	102L+ 0 1.0MM2	H05V-K SW	-X02	C15 -S1	-02 11 -S1	-02 13				
001	0 1.0MM2	H05V-K SW	-X02	C16 -S1	-02 12					
001	0 1.0MM2	H05V-K SW	-X02	D01 -S1	-02 14					
004	03L+ 0 1.0MM2	H05V-K SW	-X02	A15 -S1	-002 31 -S1	-002 43				
004	0 1.0MM2	H05V-K SW	-X02	A16 -S1	-002 32					
004	0 1.0MM2	H05V-K SW	-X02	B01 -S1	-002 44					
004	0 1.0MM2	H05V-K SW	-X02	D02 -S1	-02 21 -S1	-02 23				
05.01.2007 HJ0115ND =10+538 ADAM				GROSS CONNECT. LIST SWITCHING TRUCK PANEL			50.3023.01.A3.741.231 V =L10 +538			
03	AS BUILT	06.12.2006 AD	Date	06.06.2005	US STEEL K051GE/SLOVAKIA					1030
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01					1030
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80					1115h
NO.	Alteration	Date	Orig.	Iss. for	Iss. by:	D009781.02.610-3.AHA				
D0978102				Copyright as per DIN 34 to be observed!						



CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q04	0 1.0MM2	H05V-K SW	-X02	D03 -S1	-02 22				
Q04	0 1.0MM2	H05V-K SW	-X02	D04 -S1	-02 24				
Q06	0 1.0MM2	H05V-K SW	-X02	A07 -S24	-002 11				
Q06	0 1.0MM2	H05V-K SW	-X02	A08 -S24	-002 12				
Q06	0 1.0MM2	H05V-K SW	-X02	A09 -S24	-002 14				
Q09	0 1.0MM2	H05V-K SW	-X02	B02 -S1	-002 51 -S1	-002 63			
Q09	0 1.0MM2	H05V-K SW	-X02	B03 -S1	-002 52				
Q09	0 1.0MM2	H05V-K SW	-X02	B04 -S1	-002 64				
Q09	0 1.0MM2	H05V-K SW	-X02	B13 -S42	-002 11				
Q09	0 1.0MM2	H05V-K SW	-X02	B14 -S42	-002 14				
Q09	0 1.0MM2	H05V-K SW	-X02	B15 -S25	-002 11				
Q09	0 1.0MM2	H05V-K SW	-X02	B16 -S25	-002 14				
Q09	0 1.0MM2	H05V-K SW	-X02	D07 -S1	-02 33				
Q09	0 1.0MM2	H05V-K SW	-X02	D08 -S1	-02 34				
R01	0 1.0MM2	H05V-K SW	-X02	A10 -S41	-002 11				
R01	0 1.0MM2	H05V-K SW	-X02	A11 -S1	-002 230				
V02	0 1.0MM2	H05V-K SW	-S1	-02 42 -S62	14				
V02	0 1.0MM2	H05V-K SW	-X02	B05 -S1	-002 71				
V02	0 1.0MM2	H05V-K SW	-X02	B06 -S1	-002 72				
V02	0 1.0MM2	H05V-K SW	-X02	B07 -S1	-002 83				
GROSS CONNECT. LIST				50.3023.01.A3.741.231					
SWITCHING TRUCK				PANEL					
AREVA				10					
iss.by:				D009781.02.610-3. AHA					
Orig:				LONGITUDINAL COUPL					
Date				50.3023.01					
Drawn				SUBSTATION T80					
Check				Date					
Approval				Date					
Alteration				Date					
AS BUILT				Date					
05.12.2005				05.06.2005					
09.11.2005				09.11.2005					
20.09.2005				20.09.2005					
05.01.2007				05.01.2007					

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D00978102

H1015ND  
L10+SSB  
ADAN  
031

10

[illegible][illegible]

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

+S3B -X02															
CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+			+				+				+				+
1	-002 /L01.6	-S22	11	-002 /L01.6	-S1	44	-002 /L01.6	-F12	61	-02 /001.6	-S1	11	-02 /001.6	-S1	11
2	-002 /L01.6	-S23	12	-002 /L01.6	-S1	51	-002 /L01.6	-F12	62	-02 /001.6	-S1	21	-02 /001.6	-S1	21
3	-002 /L01.6	-S1	213	-002 /L01.6	-S1	52	-002 /L01.6	-F12	63	-02 /001.6	-S1	22	-02 /001.6	-S1	22
4	-002 /L01.6	-F11	C2	-002 /L01.6	-S1	64	-002 /L01.6	-F12	64	-02 /001.6	-S1	24	-02 /001.6	-S1	24
5	-002 /L01.6	-S6	11	-002 /L01.6	-S1	71	-002 /L01.6	-F12	65	-02 /001.6	-S1	51	-02 /001.6	-S1	51
6	-002 /L01.6	-S43	12	-002 /L01.6	-S1	72	-002 /L01.6	-F12	66	-02 /001.6	-S1	52	-02 /001.6	-S1	52
7	-002 /L01.6	-S24	11	-002 /L01.6	-S1	83	-002 /L01.6	-F12	67	-02 /001.6	-S1	33	-02 /001.6	-S1	33
8	-002 /L01.6	-S24	12	-002 /L01.6	-S1	84	-002 /L01.6	-F12	68	-02 /001.6	-S1	34	-02 /001.6	-S1	34
9	-002 /L01.6	-S24	14	-002 /L01.6	-S1	91	-002 /L01.6	-F12	69	-02 /001.6	-S1	61	-02 /001.6	-S1	61
10	-002 /L01.6	-S41	11	-002 /L01.6	-S1	92	-002 /L01.6	-F12	70	-02 /001.6	-S1	62	-02 /001.6	-S1	62
11	-002 /L01.6	-S1	230	-002 /L01.6	-S1	41	-002 /L01.6	-F12	71	-02 /001.6	-S1	43	-02 /001.6	-S1	43
12	-002 /L01.6	-S1	11	-002 /L01.6	-S1	11	-002 /L01.6	-F12	72	-02 /001.6	-S1	44	-02 /001.6	-S1	44
13	-002 /L01.6	-S1	12	-002 /L01.6	-S1	11	-002 /L01.6	-F12	73	-02 /001.6	-S1	E1	-02 /001.6	-S1	E1
14	-002 /L01.6	-S1	24	-002 /L01.6	-S1	14	-002 /L01.6	-F12	74	-02 /001.6	-S1	E2	-02 /001.6	-S1	E2
15	-002 /L01.6	-S1	31	-002 /L01.6	-S1	11	-002 /L01.6	-F12	75	-02 /001.6	-S1		-02 /001.6	-S1	
16	-002 /L01.6	-S1	32	-002 /L01.6	-S1	14	-002 /L01.6	-F12	76	-02 /001.6	-S1		-02 /001.6	-S1	
+															+

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231	50.3023.01.A3.741.231
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER	50.3023.01	50.3023.01	50.3023.01	50.3023.01	50.3023.01	50.3023.01	50.3023.01	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	10	10	10	10	10	10	10	10
NO.	Alteration	Date	Name	Stid.	Iss. for	Iss. by:	Panel	10	10	10	10	10	10	10	10
D00978102															
D009781.02.610-3.AHA															
LONGITUDINAL COUPL															
Typ: 07															
Sheet 111															
111Sh.															

Subject to technical modifications!  
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