

AREVA Sachsenwerk GmbH

Geschäftsbereich Energieverteilung

Fachbereich Mittelspannungsschaltanlagen

Königsbrücker Strasse 124 01099 Dresden

Tel.: (0351) 820-3394

Fax: (0351) 820-2602

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

CROSS COUPLING

CIRCUIT DIAGRAM

A = L14

/ A01

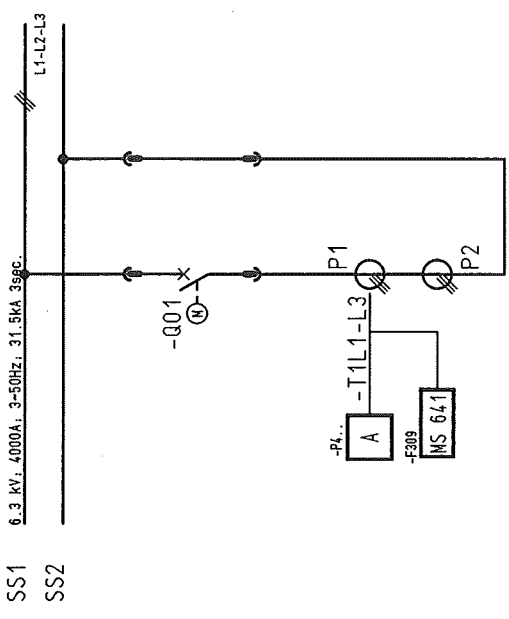
D009781.02. 614-3.AHA

50.3023.01.A3.741.230
COVER SHEET
PANEL
14

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

05.01.2007 HJ0115MD
D00978102
L14
ADAM

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



INSTRUMENT AND CONTROL					
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS	
CONTROL	-001		-001		
STATUS SIGNAL	-001		-001		
MEASUREMENT	1 (L1-13)				
PROTECTION					
METERING					

[illegible]

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYPE	RATIO	WDE	REMARKS
-T1L1	AEG	GT12	4000/1/1A	G1: cl. 0.2F55 15VA	
-T1L2	AEG	GT12	4000/1/1A	G2: cl. 10P10 20VA	
-T1L3	AEG	GT12	4000/1/1A		

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	CIRCUIT DIAGRAM	50.3023.01.A3.741.230		A = 14	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01						/ A02
01	Approval	20.09.2005	AD	Checked	GRICHMANN	SUBSTATION T80			PANEL:		Typ: 06	Sheet 2
NO.	Alteration	Date	None/Std.	Orig.:	iss.for	iss.by:	14	6	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.	

1		2		3		4		5		6		7		8	
CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION SORT MATCHING		ITEM NO.		SHEET		DESIGN			
A	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	A =L14	A01	1	COVER SHEET PANEL	14	PANEL	14		
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B	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	A =L14	B03	5	Inhaltsverzeichnis PANEL	14	PANEL	14		
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	50.3023.01.A3.741			01	02	03	S =L14	D03	8						
C	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	S =L14	D04	9	CIRCUIT DIAGRAM PANEL	14	PANEL	14	FAN B	
	50.3023.01.A3.741			01	02	03	S =L14	G00	10						
	50.3023.01.A3.741			01	02	03	S =L14	G01	11						
	50.3023.01.A3.741			01	02	03	S =L14	G02	12						
D	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	S =L14	L01	13	CIRCUIT DIAGRAM PANEL	14	PANEL	14	RING CIRCUIT	
	50.3023.01.A3.741			01	02	03	S =L14	M01	14						
	50.3023.01.A3.741			01	02	03	S =L14	M03	15						
	50.3023.01.A3.741			01	02	03	S =L14	M04	16						
E	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	S =L14	N01	17	CIRCUIT DIAGRAM PANEL	14	PANEL	14	ARC DETECTOR	
	50.3023.01.A3.741			01	02	03	S =L14	N02	18						
	50.3023.01.A3.741			01	02	03	S =L14	P01	19						
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F	50.3023.01.A3.741	230	D009781.02.614-3.AHA	01	02	03	S =L14	Q01	21	CIRCUIT DIAGRAM PANEL	14	PANEL	14	POSITION INDICA.	
	50.3023.01.A3.741			01	02	03	S =L14	Q02	22						
	50.3023.01.A3.741			01	02	03	S =L14	Q03	23						
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AS BUILT 05.12.2005 AD Date 06.06.2005		US STEEL KOSICE/SLOVAKIA		Inhaltsverzeichnis		50.3023.01.A3.741.230		A =L14		7801					
Fact.-Rev. 09.11.2005 AD Drawn ADAM		SUBSTATION T80		PANEL		14		Type: 06		Sheet 3					
Approval 20.09.2005 AD Check GROHMANN		Orig:		iss.by:		D009781.02.614-3.AHA		93Sh.		8					
Alteration Date Name/Sid		2		3		4		5		6		7		8	

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D00978102

05.01.2007

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CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
						SORT MATCHING		ITEM NO.							
A	50.3023.01.A3.741 .230	D009781.02.614-3.AHA		01	02	03	S =L14	X01	32	CIRCUIT DIAGRAM		AX PE-BUS		14	
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F	50.3023.01.A3.741 .230	D009781.02.614-3.AHA		01	02	03	V =L14 +S1A.R	K81	62	TERMINAL DIAGRAM		14			
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AS BUILT		US STEEL KOSICE/SLOVAKIA		50.3023.01		Inhaltsverzeichnis		50.3023.01.A3.741 .230		A =L14		A =L14		/ B02	
Fact.-Rev.		09.11.2005 AD		Drawn ADAM		AREVA		PANEL		Type: 06		D009781.02.614-3.AHA		Sheet 4	
Approval		20.09.2005 AD		Check GROHMANN		iss.by:		14		CROSS COUPLING		93Sh.		8	
Alteration		Date		Name/Sid		Iss. for		2		3		4		5	

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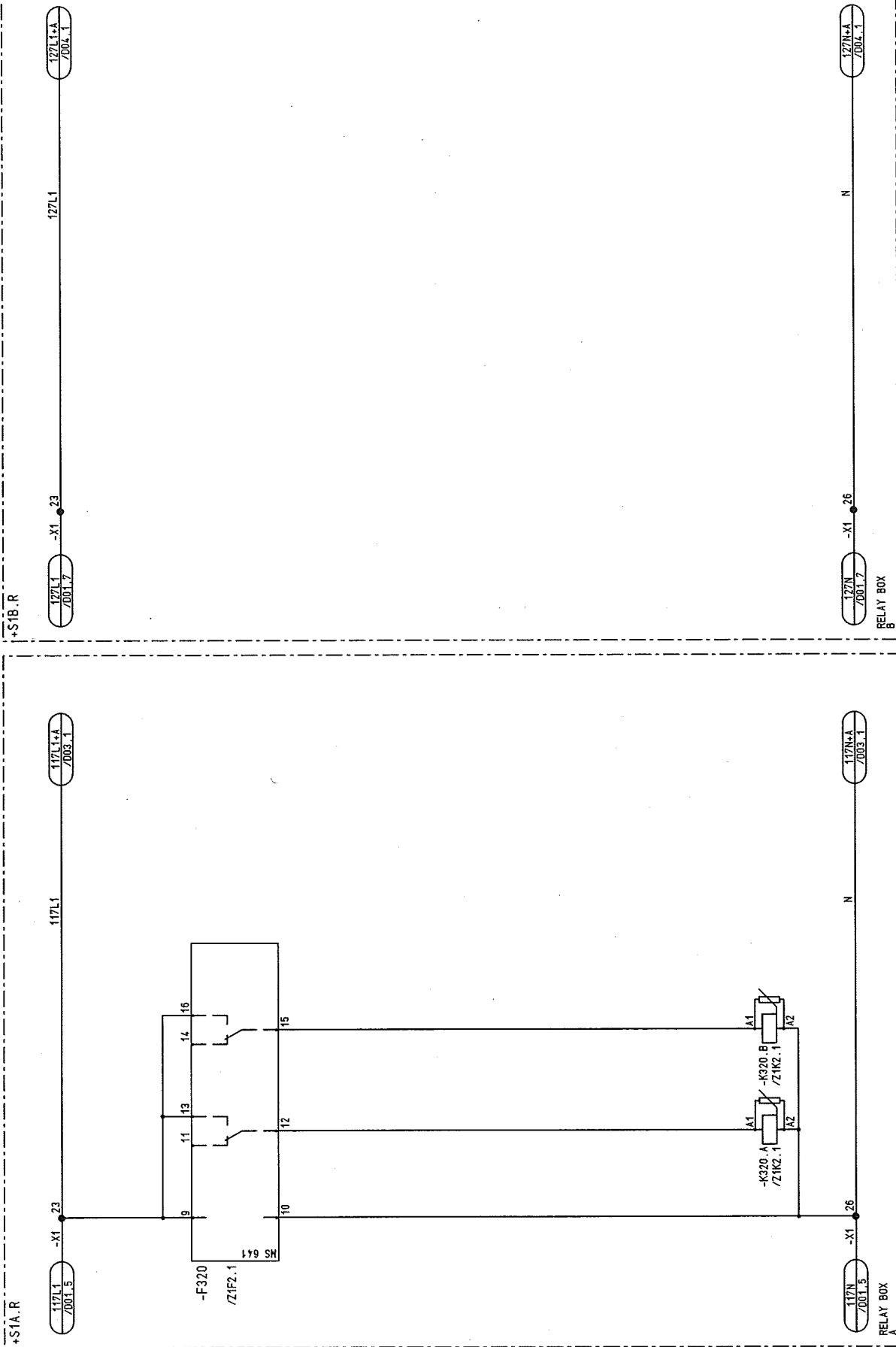
05.01.2007

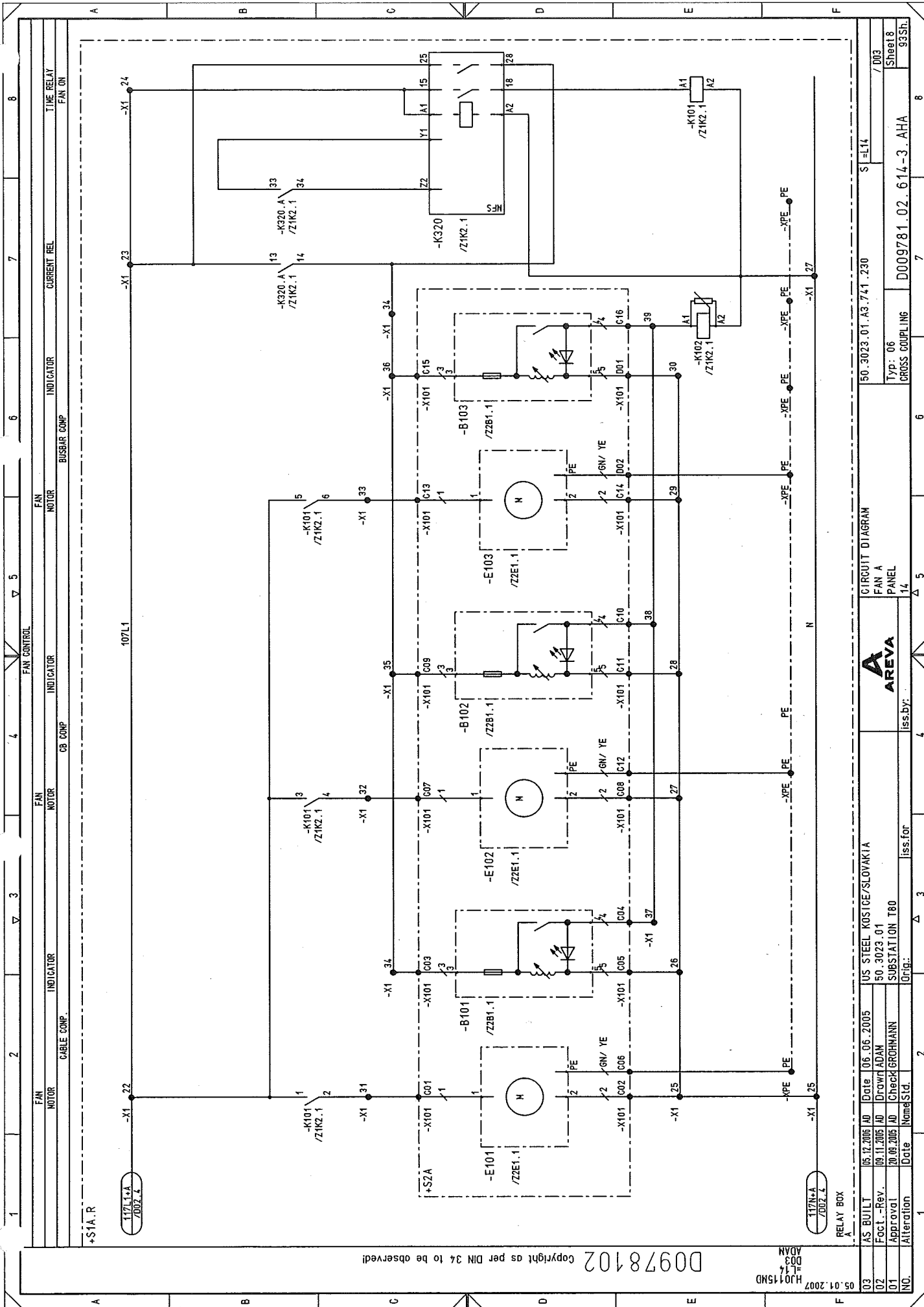
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	02	Fact.-Rev.	09.11.2005	AD	Drawn ADAM	50.3023.01		PANEL		Typ: 06		D009781.02.614-3.AHA		Sheet 5	
	01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80		14		CROSS COUPLING		7		93Sh.	
	Alteration	Date	Name	Std.	Iss. for	Iss. by:	4	AREVA		5		6		8	

1		2		3		4		5		6		7		8	
CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
						SORT MATCHING		ITEM NO.							
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50.3023.01.A3.741.230		D009781.02.614-3.AHA		01	02	03	V L14 +S1A.R	Q10	65	CROSS CONNECT. LIST PANEL	14				
50.3023.01.A3.741.230		D009781.02.614-3.AHA		01	02	03	V L14 +S1A.R	Q11	66	CROSS CONNECT. LIST PANEL	14				
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50.3023.01.A3.741.230		D009781.02.614-3.AHA		01	02	03	V L14 +S3B	Q31	92	CROSS CONNECT. LIST PANEL	14				
50.3023.01.A3.741.230		D009781.02.614-3.AHA		01	02	03	V L14 +S3B	S01	93	PLUG DIAGRAM PANEL	14				

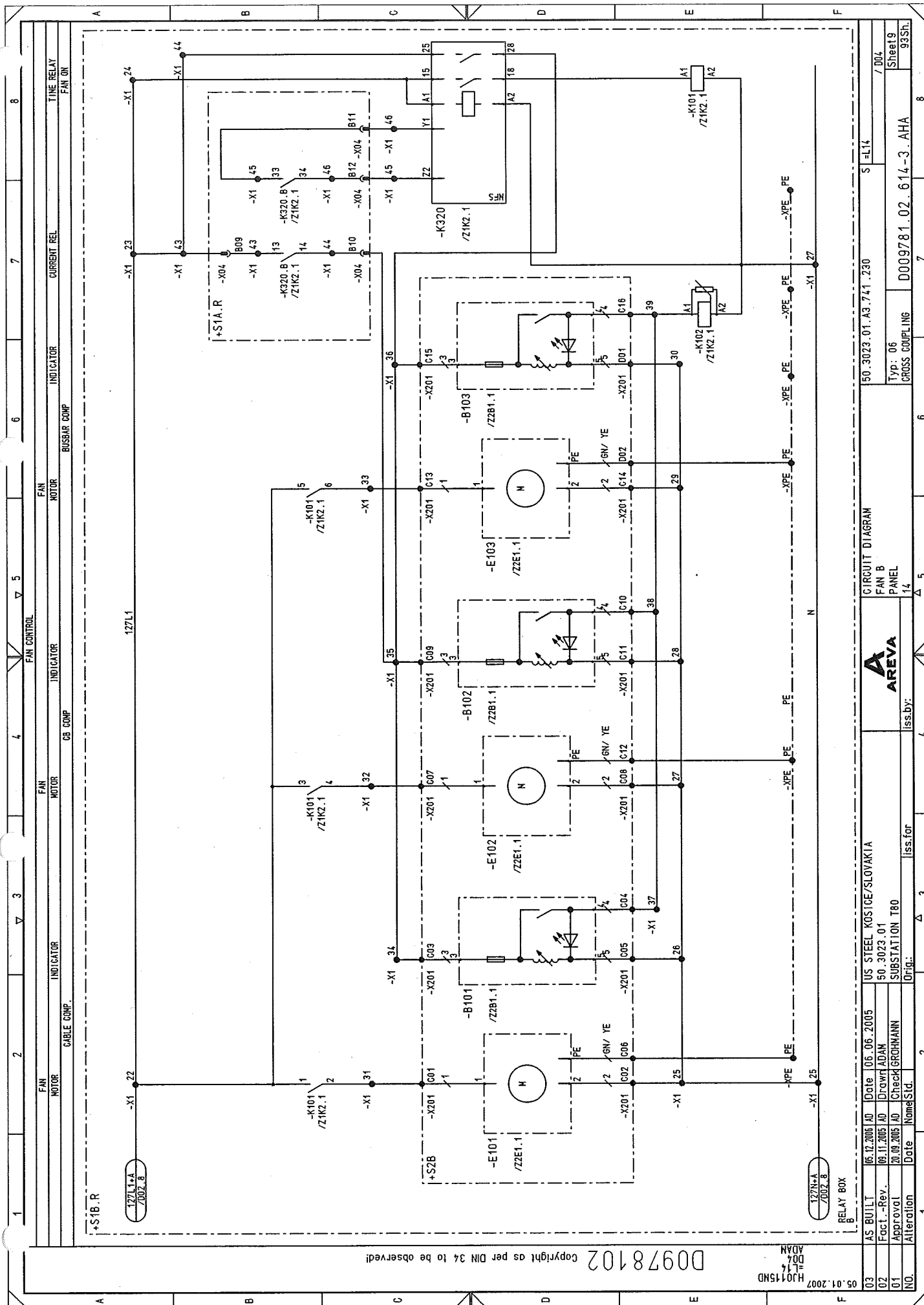
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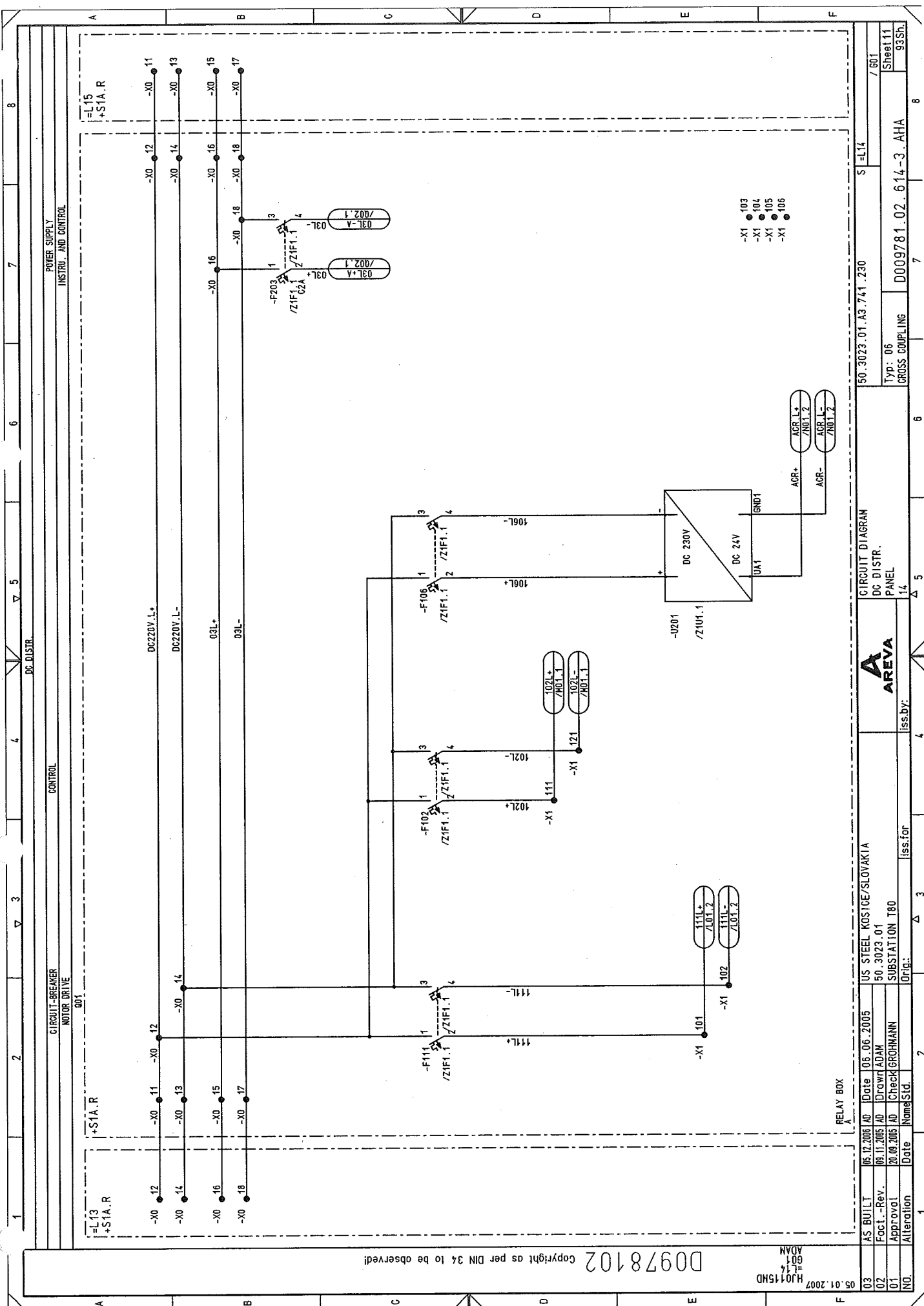
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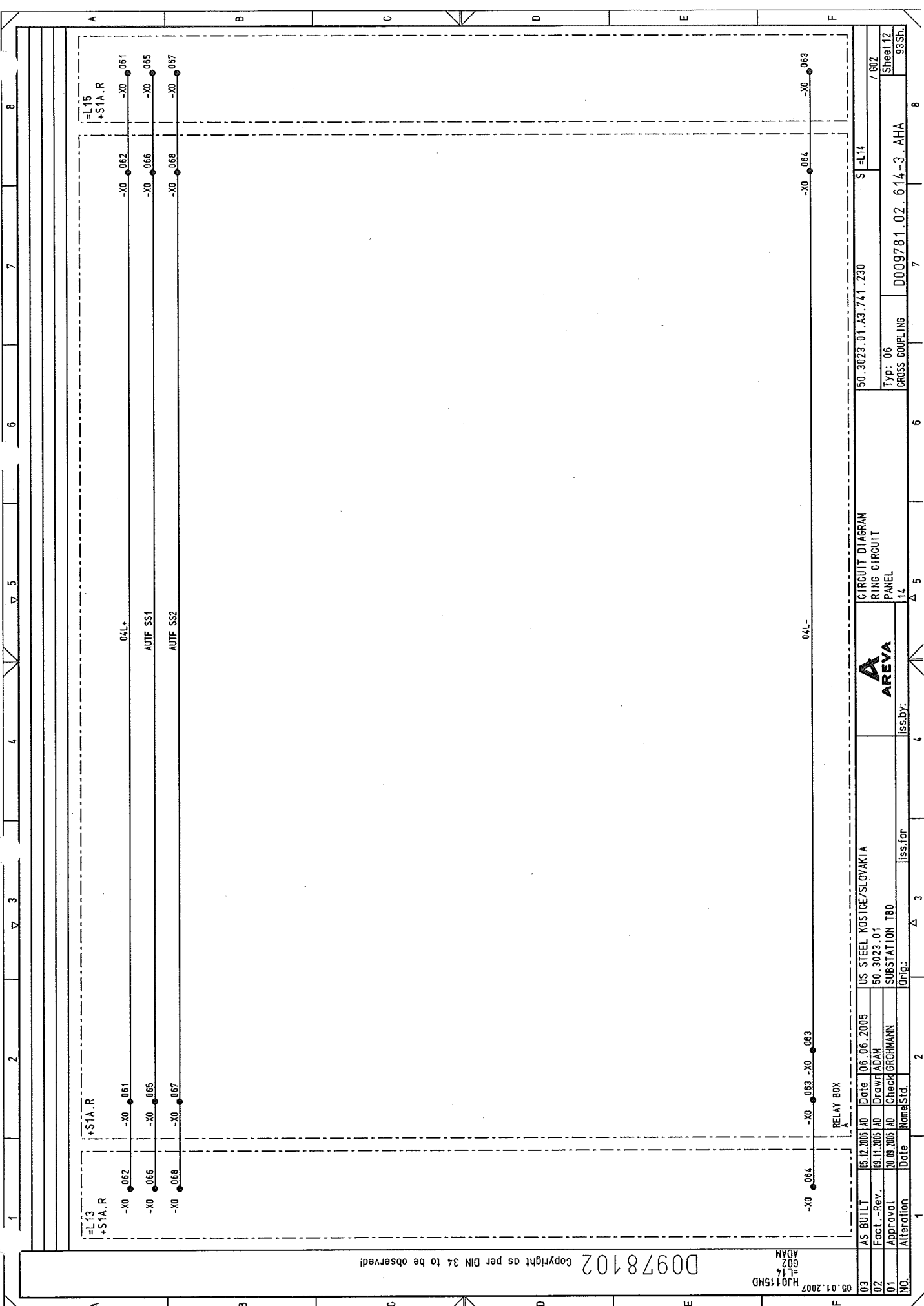


NO.		Alteration	Date	Name	Sld.	Iss. for	Iss. by:	PANEL		DC DISTR.		CIRCUIT DIAGRAM		50.3023.01.A3.741.230		S-L14		/ 601	
03		AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01		50.3023.01		50.3023.01		50.3023.01		50.3023.01		50.3023.01	
02		Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	SUBSTATION T80		SUBSTATION T80		SUBSTATION T80		SUBSTATION T80		SUBSTATION T80		SUBSTATION T80	
01		Approval	20.09.2005	AD	Check	GROHMANN	50.3023.01	50.3023.01		50.3023.01		50.3023.01		50.3023.01		50.3023.01		50.3023.01	
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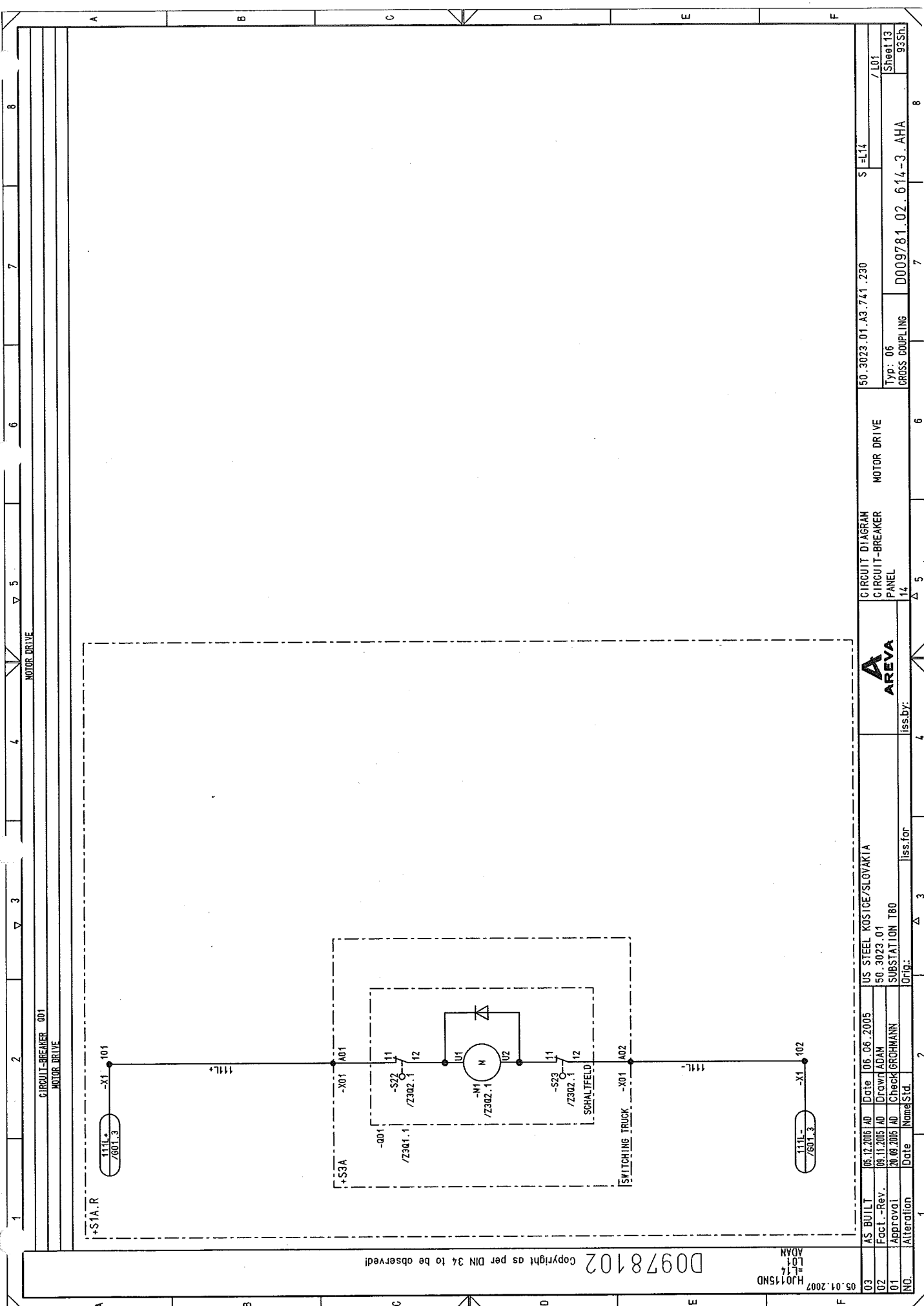


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ADAM

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.230	S=L14	/ 602
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	RING CIRCUIT			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	14	Typ: 06	CROSS COUPLING	Sheet 12
										93Sh.

D009781.02.614-3.AHA



CIRCUIT-BREAKER 001
MOTOR DRIVE

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	MOTOR DRIVE	50.3023.01.A3.741.230	S=L14	8
02	Fact. -Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER				7
01	Approval	20.06.2005	AD	Check	BRCHMANN	SUBSTATION T80	PANEL				6
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	14				5
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Typ. 06	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.	8
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50.3023.01.A3.741.230	S=L14	8
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US STEEL KOSTICE/SLOVAKIA	50.3023.01	6
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SUBSTATION T80	Orig.:	7
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Check	BRCHMANN	8
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Date	06.06.2005	9
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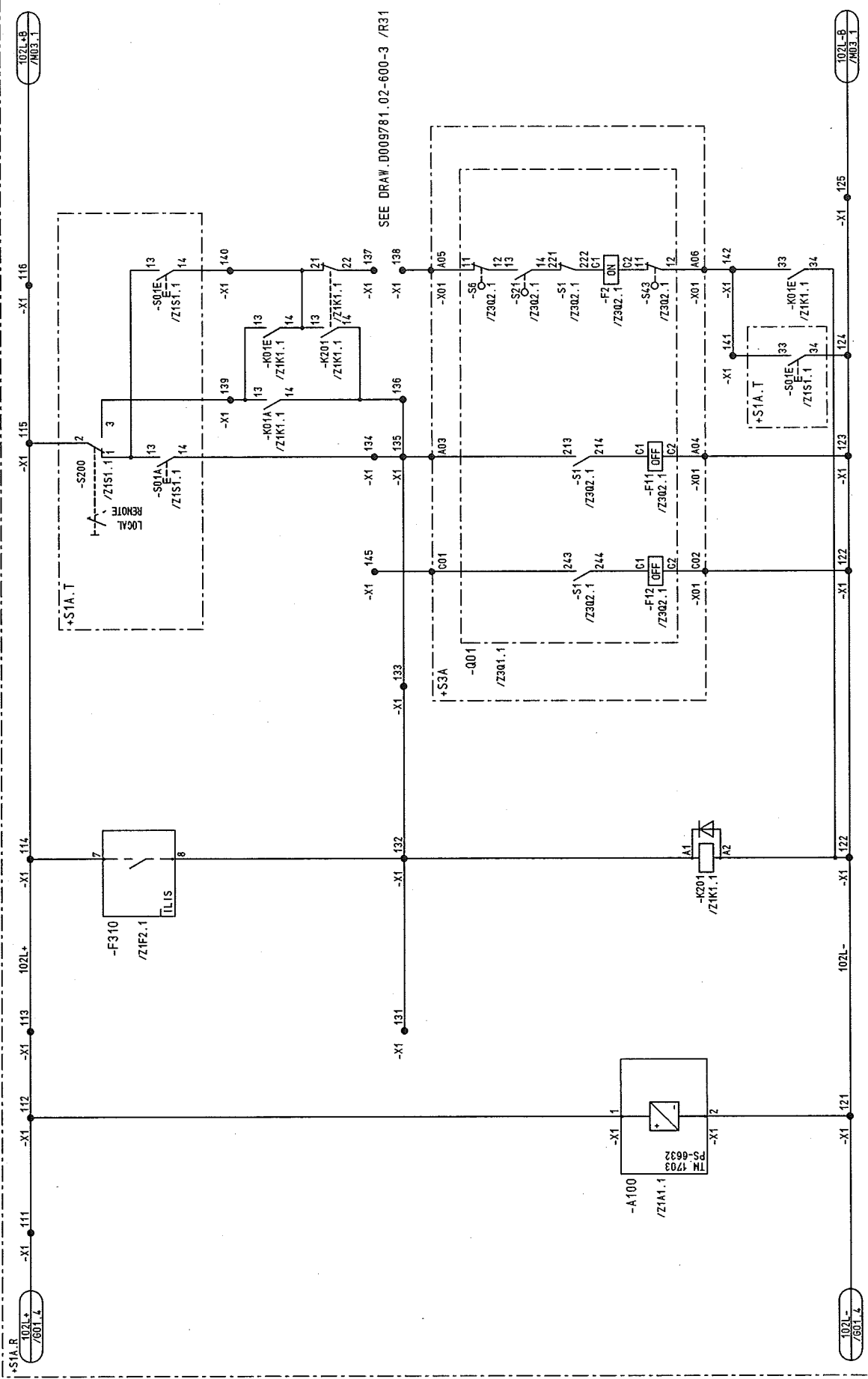
05.04.2007
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:

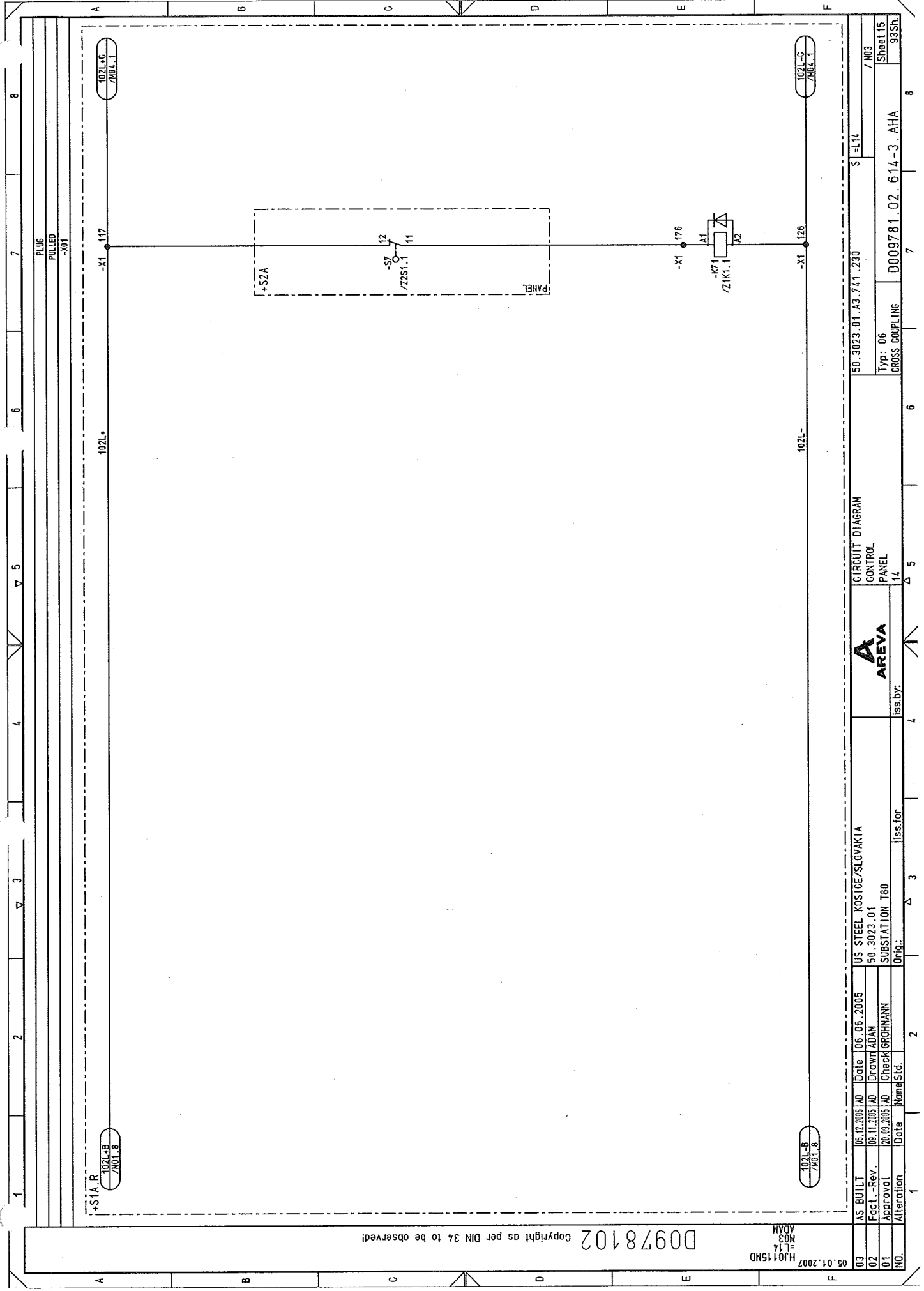


CIRCUIT DIAGRAM
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50.3023.01.A3.741.230	S=L14	/M01
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-X1

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CIRCUIT DIAGRAM
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US STEEL KOSICE/SLOVAKIA
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SUBSTATION T80

06.12.2005 AD Date
08.11.2005 AD Drawn
20.09.2005 AD Check

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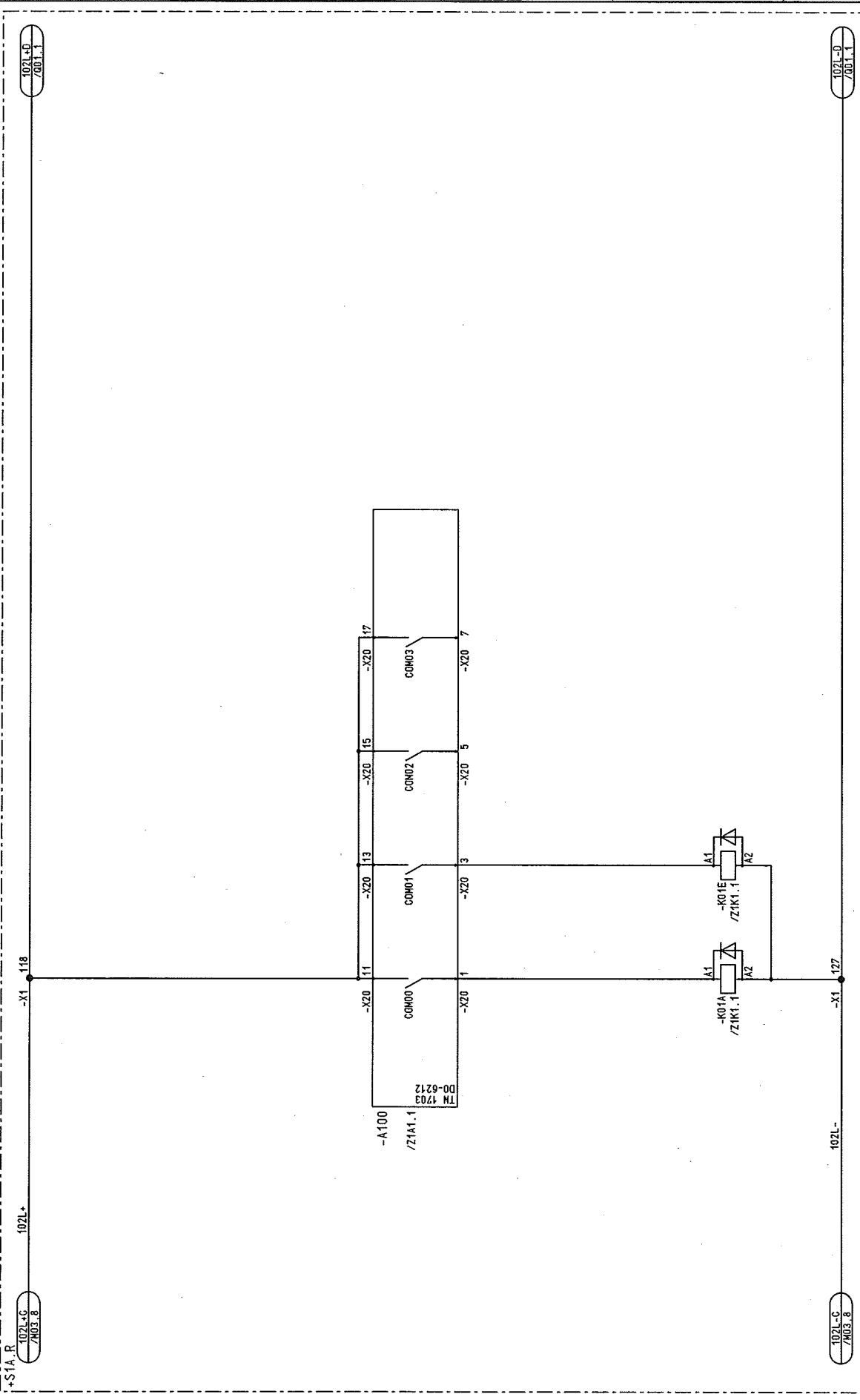
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D0978102 Copyright as per DIN 34 to be observed!

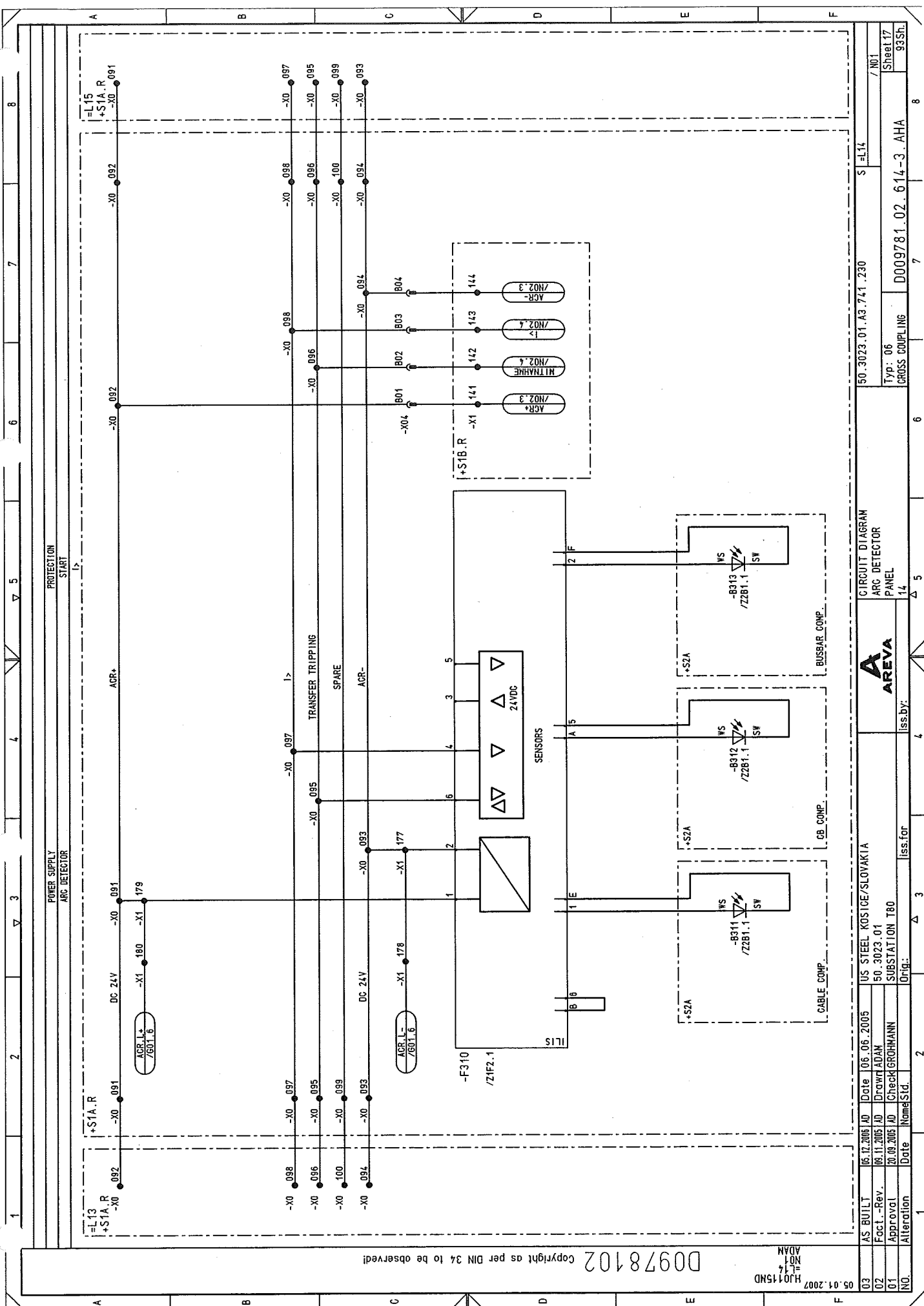
05.01.2007
HJ0115ND
NO. 14
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02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01	CONTROL			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Nome	Std.	Iss. for	Iss. by:	14	D009781.02.614-3.AHA	Typ: 06	Sheet 16
								CROSS COUPLING		93Sh



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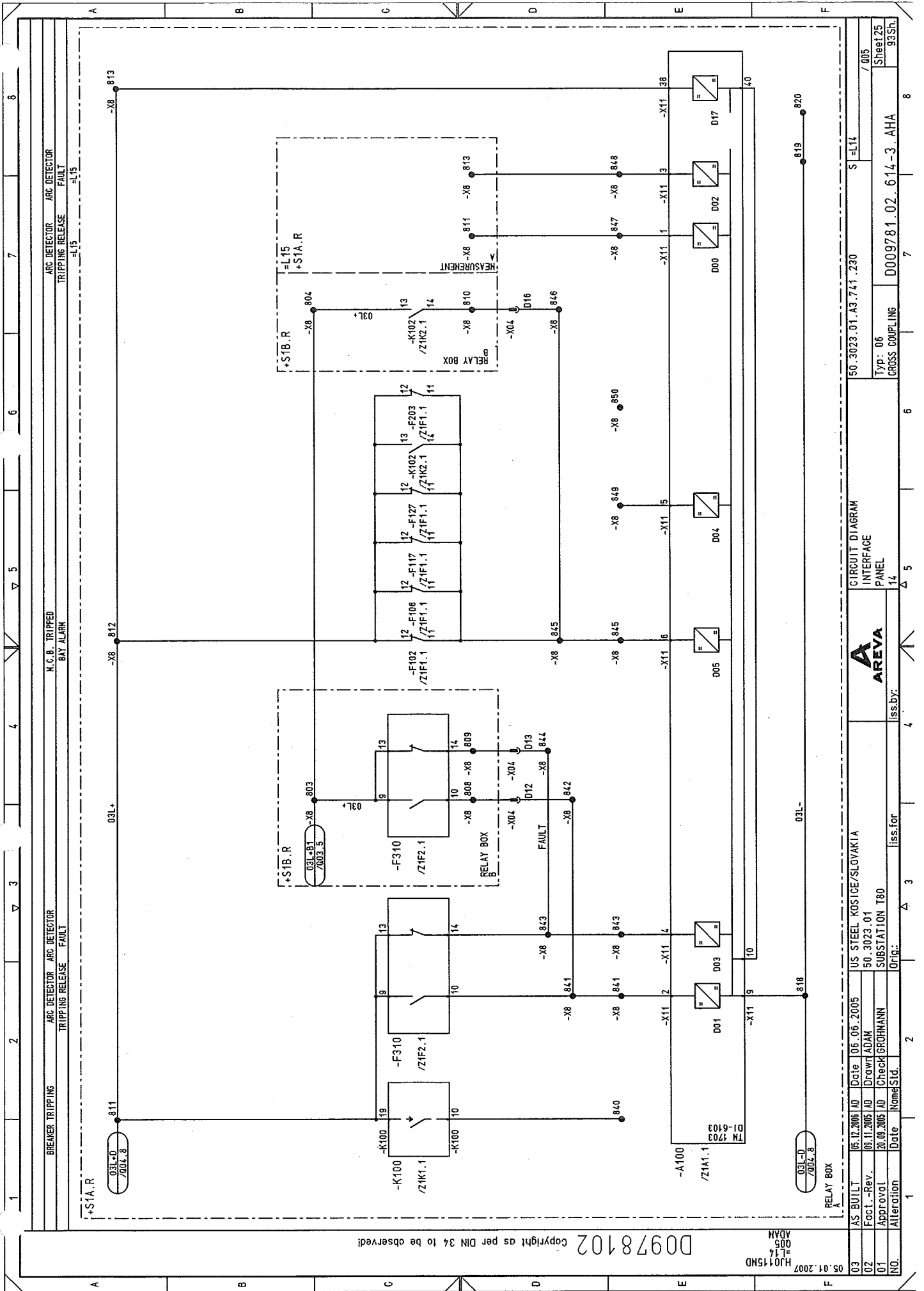


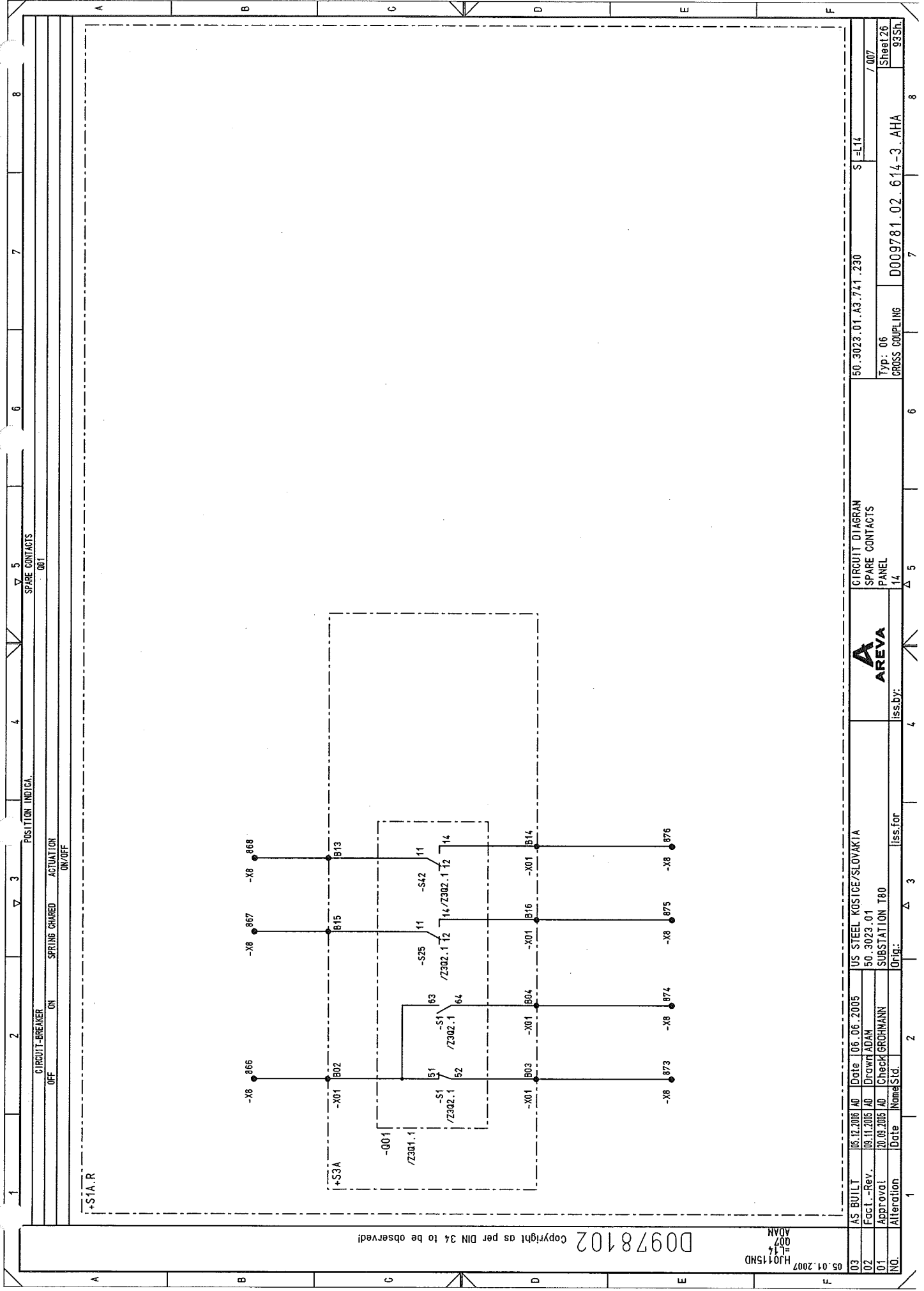
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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	50.3023.01.A3.741.230	S=L14	/ 007
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM					Sheet 26
01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80				935h
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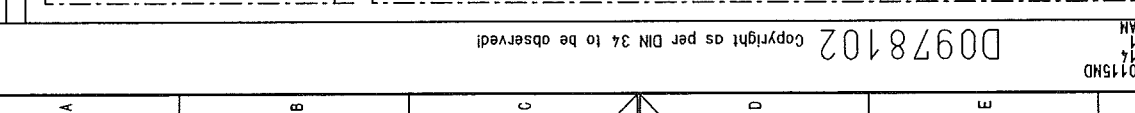


CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL

SPARE CONTACTS
001

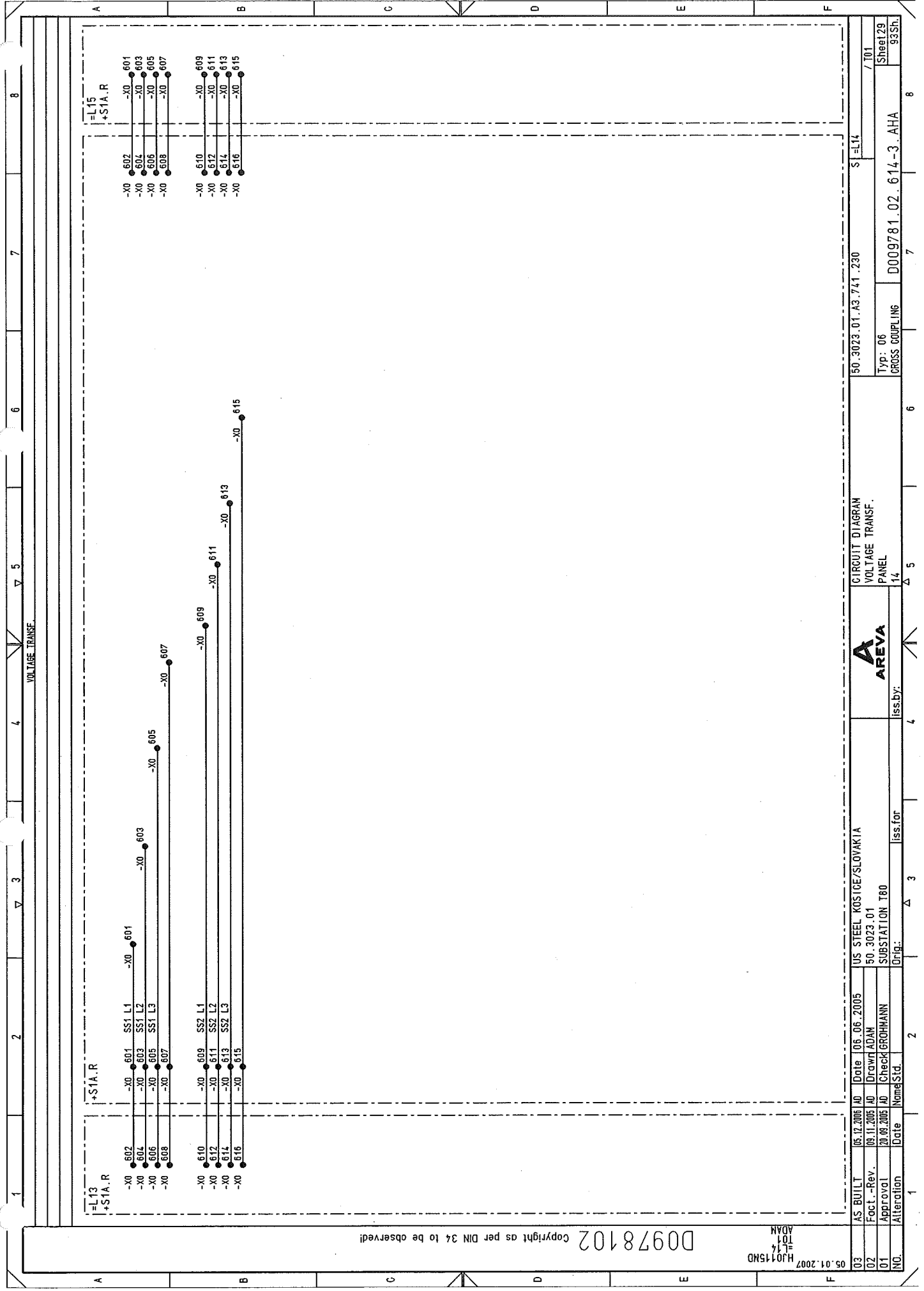
POSITION INDICIA.

CIRCUIT-BREAKER
OFF ON SPRING CHARGED ACTUATION ON/OFF



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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM		50_3023_01_A3_747_230	S=L14	
02	Fact. -Rev.	08.11.2005	AD	Drawn	ADAM	50_3023_01	CURR. TRANSF.				/S01
01	Approval	20.04.2005	AD	Checked	GROHMANN	SUBSTITUTION T80	PANEL		Type: 06		Sheet 28
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	GROSS COUPLING	D009781.02.614-3_AHA	93Sh.
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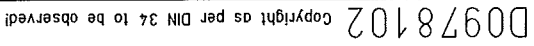
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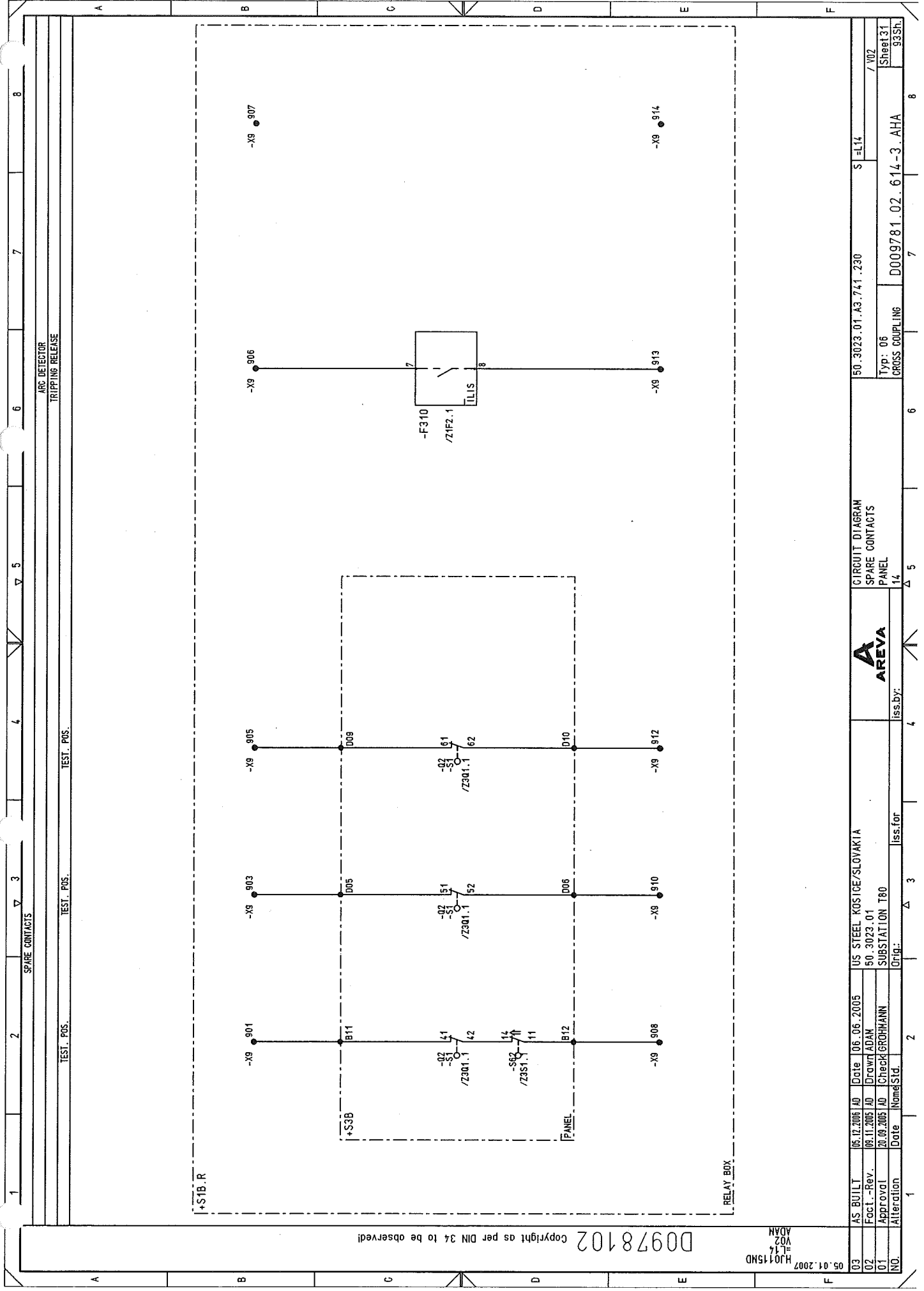
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet 29
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:		D009781.02.614-3.AHA		93Sh.







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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01	50.3023.01.A3.741.230	S=L14	8
02	Factl.-Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01				
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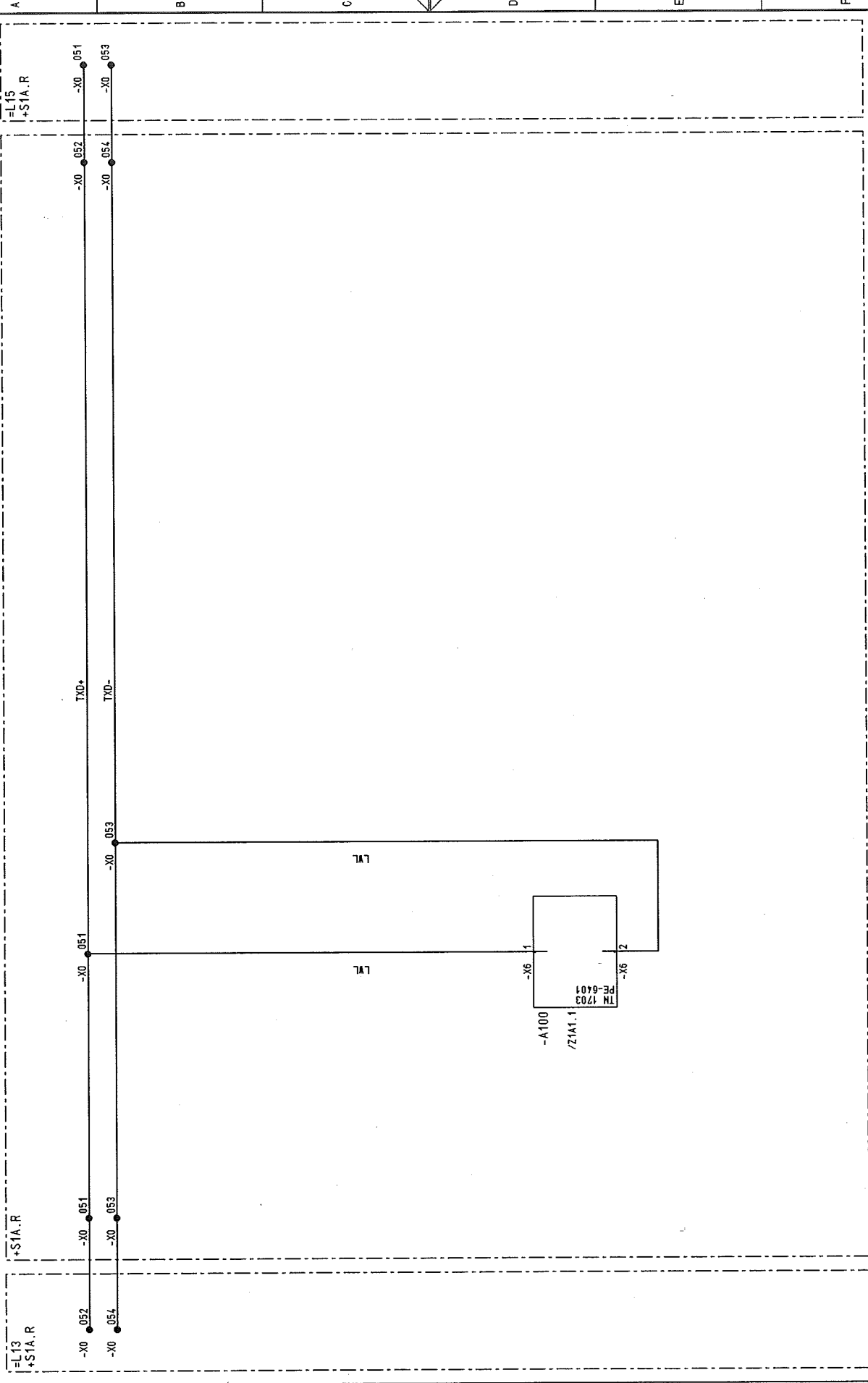
CIRCUIT DIAGRAM
SPARE CONTACTS
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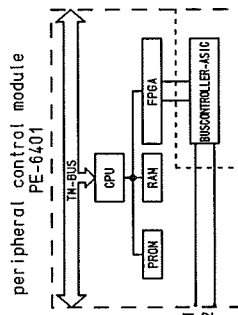
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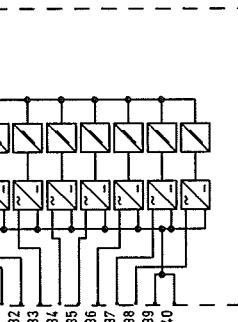
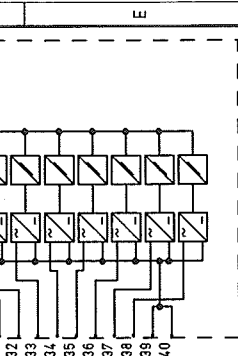
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02		Fact. -Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01		AX PE-BUS		Typ: 06		Sheet 32		93Sh.	
01		Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL		CROSS COUPLING		D009781.02.614-3.AHA			
NO.		Alteration	Date	Name	Std.		Orig.		Iss. for		Iss. by:					



03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50.3023.01.A3.741.230	S=L14	/ Z1A1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name	Sig.	Offic.	Iss. for	iss. by:	PANEL	Type: 06	D009781.02.614-3.AHA	Sheet 33
								14	GROSS COUPLING	93 Sh.	

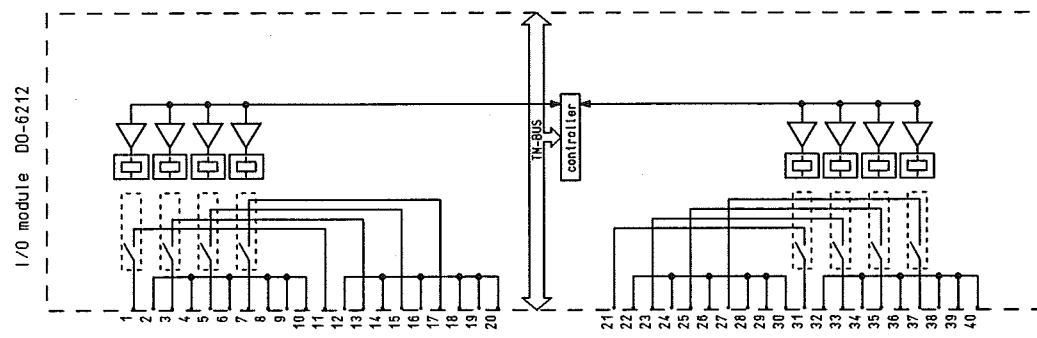
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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA			LIST OF EQUIPMENT		50.3023.01.A3.741.230		S	=14	/ ZIA10
02	Fact. - Rev.	09.11.2005	AD	Draht ADAN		50.3023.01			PANEL		Typ: 06		Sheet 34		
01	Approval	20.09.05	AD	Czech GROHMANN		SUBSTATION T80			14		CROSS COUPLING		D009781.02.614-3.AHA		
NO.	Alteration	Date	NomeStd	Iss.for		Iss.by:		7		6		8			

The diagram shows a block-level architecture for the I/O module D0-6212. It is organized into two main sections, each with 20 pins (1-20 and 21-40). Each section contains four input channels and four output channels. A central controller block manages the data flow between the I/O bus and the module's internal components.



03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50.3023.01.A3.741.230		S = 14		
02	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01								/ Z1A11
01	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80			PANEL		Type: 06			Sheet 35
NO.	Alteration	Date	Name	Std.	Iss.	For	Iss. by:	14		CROSS COUPLING	D009781.02.614-3.AHA		93Sh.	
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STÜCK- TITEL	DESCRIPTION, DESIGN, TECHNICAL DATA SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				
2	M.C.B. AUXILIARY SWITCH HH	MANUF.: GE POWER CONTROLS PO NO.: 566311 TYPE EP102 UC B6					
1	RATED CURRENT : 6A AUXILIARY SWITCH	CHARACTERISTIC : B TYP CB SH/HH-R ORDER NO 672570					
APPLICATION: CONTROL SETTINGS: MOUNTING: *STA.R BTA IDENTIFIER: -F102 POWER SUPPLY: DC/DC CONVERT *STA.R -F106							
1	M.C.B. AUXILIARY SWITCH HH	MANUF.: GE POWER CONTROLS PO NO.: 566330 TYPE EP102 UC C0.5					
1	RATED CURRENT : 0.5A AUXILIARY SWITCH	CHARACTERISTIC : C TYP CB SH/HH-R ORDER NO 672570					
APPLICATION: MOTOR DRIVE SETTINGS: MOUNTING: *STA.R BTA IDENTIFIER: -F111							
2	SICHERUNGSAUTOMAT HILFSSCHALTER HH	MANUF.: GE POWER CONTROLS PO NO.: TYPE EP61 B6					
1	NEUWSTROM NOMINAL CURRENT : 6A HILFSSCHALTER	CHARACTERISTIC : B TYP CB SH/HH-R ORDER NO 672570					
APPLICATION: FAN SETTINGS: MOUNTING: *STA.R BTA IDENTIFIER: -F117 FAN: *STA.R -F127							
1	M.C.B. AUXILIARY SWITCH HH	MANUF.: MOELLER PO NO.: TYPE C 2A					
1	RATED CURRENT : 2A AUXILIARY SWITCH	CHARACTERISTIC : C TYP CB SH/HH-R ORDER NO					
APPLICATION: SIGNALLING SETTINGS: MOUNTING: *STA.R BTA IDENTIFIER: -F203							

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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	20.06.2005	AD	Checked	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:



LIST OF EQUIPMENT

50.3023.01.A3.741.230	51-L14	7 ZIF1
Typ: 06	CROSS COUPLING	D009781.02.614-3.AHA
93Sh		93Sh

STÜCK- TITEL	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	ARC DETECTOR DC 24V	MANUF.: AREVA PO NO.: C66622	TYPE ILIS			
		TECHNICAL COMPONENTS	TYP	ORDER NO		
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
	ARC DETECTOR		*S1A.R	-F310		
	ARC DETECTOR		*S1B.R	-F310		
1	CURRENT SENSING RELAY	MANUF.: ALSTOM PO NO.:	TYPE MS 641			
		AUXILIARY VOLTAGE : 230V AC				
		TECHNICAL COMPONENTS	TYP	ORDER NO		
		1 AH / N				
		MESSLEITUNG				
		HYSTERESE				
		ANSPRECHVERZÖGERUNG				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
	CURRENT		*S1A.R	-F320		

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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT	
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAN	50.3023.01		50.3023.01.A3.741.230	
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		S=L14	
NO.	Alt	Alteration	Date	Name	Sid	Orig.	Iss.for	Iss.by:	14
							PANEL	Type: 06	Sheet 39
							CROSS COUPLING	D009781.02.614-3.AHA	93Sh.

[illegible]

[illegible]

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50_3023_01_A3_741_230	S = L14	/ ZIS1	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80						
NO.	Alteration	Date	Name	Std.	Date	Orig.:	iss.for	iss.by:	PANEL	Typ: 06	Sheet 42	
									14	GROSS COUPLING	D009781_02_614-3_AHA	93Sh.

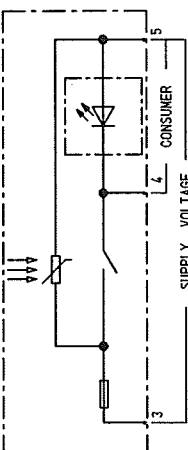
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STÜCK- TITEL		DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA MOUNTING		APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		WITH REFERENCES TO DETAILS							
1		DC/DC WANDLER DC 230V IN DC 24V		Manuf.: DEUTRONIC Ord.No.: Type: DOM 120-120		Technical components per device Type: Ordering number		PE U _E UA1 UA2 GND1 GND2 DC OK							
Application DC/DC WANDLER 1V/5-F NIEDERLEITUNG		Settings		Location +SIA.R		Item designation -J201									
03 AS BUILT		05.12.2005 AD		Date 05.06.2005		US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.230		S=EL14		7 ZIUI	
02 Fact.-Rev.		09.11.2005 AD		Drawn ADAM		50.3023.01									
01 Approval		20.09.2005 AD		Check GROHMANN		SUBSTATION T80		PANEL		Typ: 06		D009781.02.614-3.AHA		Sheet 43	
NO. Alteration		Date		Name Std.		Orig.		iss.by:		iss.for				93Sh.	


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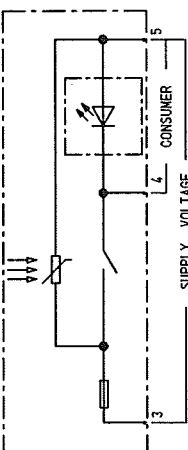
05.01.2007
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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.230	S1=L14	8
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAN	50.3023.01			/ Z281	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80			Sheet 44	
NO.	Alteration	Date	Name	Sld.	Iss.	for	Iss.	by:	Typ: 06	8
									CROSS COUPLING	
									D009781.02.614-3_AHA	
									93Sh.	

1	2	3	4	5	6	7	8
STÜCK- TITEL	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.)		REMARK
6	D100E SENSOR-DIODE FÜR ILIS	MANUF.: PO NO.: ILIS	TYPE				
TECHNICAL COMPONENTS				TYP	ORDER NO		
APPLICATION				SETTINGS	MOUNTING	BTN IDENTIFIER	
					+S2A	-B311	
					+S2A	-B312	
					+S2A	-B313	
					+S2B	-B311	
					+S2B	-B312	
					+S2B	-B313	
6	LUEFTER INDIKATOR	MANUF.: PO NO.: KRIWAN	TYPE 52N102S21				
SPANNUNG : 230V AC				TYP	ORDER NO		
TECHNICAL COMPONENTS				TYP	ORDER NO		
APPLICATION				SETTINGS	MOUNTING	BTN IDENTIFIER	
FAN				INDIKATOR	+S2A	-B101	
FAN				INDIKATOR	+S2A	-B102	
FAN				INDIKATOR	+S2A	-B103	
FAN				INDIKATOR	+S2B	-B101	
FAN				INDIKATOR	+S2B	-B102	
FAN				INDIKATOR	+S2B	-B103	







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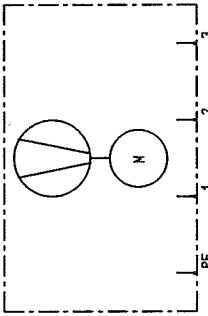
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15.01.2007

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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.230	S=L14	7 Z2E1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01				Sheet 45
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				93sh.
NO.	Alteration	Date	Name	Sld.	2	Iss for	Iss by:	Typ: 06 CROSS COUPLING	D009781.02.614-3.AHA	

1	2	3	4	5	6	7	8
STÜCK- TITEL	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 (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK		
6	FAN	MANUF.: PO NO.:	TYPE	ORDER NO			
	VOLTAGE : 230V AC						
	TECHNICAL COMPONENTS						
	APPLICATION	SETTINGS	MOUNTING	BTM 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		



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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.A3.741.230	S1=L14	/ Z251
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				Sheet 46
NO	Alteration	Date	Name	Sid.	Iss. for	Orig.	iss. by:	Typ: 06 CROSS COUPLING	D009781.02.614-3. AHA	93Sh

STUCK-TITTY		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.)												REMARK
2		AUXILIARY SWITCH PLUG PULLED		MANUF.: AREVA PO NO.:		TYPE		ORDER NO.				<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div> 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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.230	S=L14
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		PANEL		Type: 06	/ Z341
NO.	Alteration	Date	Name	Std.	Orig.	iss. for	iss.by:	14	CROSS COUPLING	D009781.02.614-3.AHA	93sh.

[illegible]

1		2		3		4		5		6		7		8	
STÜCK- TITEL		DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		SETTINGS MOUNTING		MANUFACTURER, TYPE, ORDERING DATA APPA. 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	
6		ANSTORSCHALTER		MANUF.: ALSTOM PO NO.:		TYPE		ORDER NO							
		TECHNICAL COMPONENTS													
		APPL. CAT.ION		SLIDE-IN MODULE		SETTINGS		MOUNTING		SYM. IDENTIFIER					
		CRANK INSERTED		SLIDE-IN MODULE		+S3A		+S3A		-S61		/P01.2			
		CRANK INSERTED		SLIDE-IN MODULE		+S3A		+S3A		-S62		/P02.4			
		CRANK INSERTED		SLIDE-IN MODULE		+S3A		+S3A		-S63		/P01.5			
		CRANK INSERTED		SLIDE-IN MODULE		+S3B		+S3B		-S61		/P02.2			
		CRANK INSERTED		SLIDE-IN MODULE		+S3B		+S3B		-S62		/P02.2			
		CRANK INSERTED		SLIDE-IN MODULE		+S3B		+S3B		-S63		/P01.4			

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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT		50.3023.01.A3.741.230	S1=L14	/ Z351
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	PANEL		Typ: 06		
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	14		CROSS COUPLING		
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:				
									D009781.02.614-3.AHA		93Sh.

03	AS BUILT	05.12.2008	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50_3023_01.A3.741.230	S = 14
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50_3023_01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				
NO.	Alteration	Date	Name	Sig.		Orig.	Iss. for	Iss. by:	14	Typ: 06 GROSS COUPLING D009781.02.614-3.AHA Sheet 51 93Sh.

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[illegible]

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.13.741.230	V = L14					
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					/ K03				
01	Approval	20.09.2005	AD	Checked	GROCHMANN										
NO.	Alteration	Date	Named	Std.	Issued	Orig.	Iss. for	Iss. by:	14	PANEL	Typ: 06	CROSS COUPLING	D009781.02.614-3.AHA	Sheet 154	93 Sh.

[illegible]

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL K0510E/SLOVAKIA	 AREVA	TERMINAL DIAGRAM	50_3023_01_A3_741_230	V=14	*SIA.R	/ K11
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01						
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	 AREVA	PANEL 14	Type: 06 GROSS COUPLING	D009781.02.614-3.AHA	93SH.	
AD	Alteration			Drawn/Sd								

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50.3023.01.A3.741.230	V=L14
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		PANEL		Type: 06	Sheet57
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		14		GROSS COUPLING	93Sh.
NO.	Alteration	Date	Name	Sid.	Orig.	Iss for	Iss by:	D009781.02.614-3.AHA			

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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3.741.230	V -14 +5A.R	/ K80
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01					
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	Iss. by:	14	PANEL	Typ: 06 CROSS COUPLING	Sheet 61 93Sh.

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NO CABLE															WIRES USED SHEET STATE										CABLE-TYPE SECTION										CORES										-ROUTE										CIRCUIT DIAGRAM										CABLE MATERIAL										Ø COLOR										TERM. TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.230	V	L14	/ RPE	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01							
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80							
INO.	Alteration	Date	Named	Std.	Iss. for	Orig.	Iss. by:	14	PANEL	Typ: 06	CROSS COUPLING	D009781.02.614-3.AHA	93Sh

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	AC230V.L1 1 1.5MM2	H07V-K SW	-X0	2 -F117	1 -F127	1			
D02	1 1.5MM2	H07V-K SW		-F320	12 -K320.A	A1			
D02	1 1.5MM2	H07V-K SW		-F320	15 -K320.B	A1			
D02	117L1 1 1.5MM2	H07V-K SW	-X1	23 -F320	9 -F320	13 -F320	16		
D02	N	BL	-X1	26 -F320	10 -K320.A	A2 -K320.B	A2		
D03	1 1.5MM2	H07V-K SW		-K101	A1 -K320	18			
D03	1 1.5MM2	H07V-K SW		-K320	Y1 -K320.A	33			
D03	1 1.5MM2	H07V-K SW		-K320	Z2 -K320.A	34			
D03	107L1 1 1.5MM2	H07V-K SW	-X1	22 -K101	1 -K101	3 -K101	5		
D03	107L1 1 1.5MM2	H07V-K SW	-X1	23 -K320	25 -K320.A	13			
D03	107L1 1 1.5MM2	H07V-K SW	-X1	24 -K320	15 -K320	A1			
D03	N	BL	-X1	27 -K101	A2 -K102	A2 -K320	A2		
D03	1 1.5MM2	H07V-K SW	-X1	34 -K320	28 -K320.A	14			
G01	106L+ 1 1.5MM2	H07V-K SW		-F106	2 -U201	+			
G01	106L- 1 1.5MM2	H07V-K SW		-F106	4 -U201	-			
G01	DC220V.L+ 1 1.5MM2	H07V-K SW	-X0	12 -F102	1 -F106	1 -F111	1		
G01	DC220V.L- 2 2.5MM2	H07V-K SW	-X0	14 -F102	3 -F106	3 -F111	3		
N01	102L- 1 1.5MM2	H07V-K SW	-X1	122 -K01E	34 -K201	A2			
N01	1 1.5MM2	H07V-K SW	-X1	136 -K01A	14 -K201	14			
N01	1 1.5MM2	H07V-K SW	-X1	139 -K01A	13 -K01E	13			

05.01.2007

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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST		150.3023.01.A3.741.230	V	L14	/ Q10
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	RELAY BOX				+S1A.R	
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80	PANEL		Typ: 06			Sheet65
	Alteration			Date		Iss.by:	14		CROSS COUPLING	D009781.02.614-3.AHA		93Sh.

05.01.2007

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D0978102

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST	50.3023.01.A3.741.230	V=L14	Sheet 65
02	Fact. -Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01	RELAY BOX		+SIA.R	/ 010
01	Approval	20.04.2005	AD	Checked	BROHMANN	SUBSTATION T80	PANEL		Typ: 06	Sheet 65
N0.	Alteration	Date	None	Std.	Onig.	Iss. for	Iss. by:		CROSS COUPLING	93Sh.
									D009781.02.614-3.AHA	

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

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

A		B		C		D		E		F	
+	+	+	+	+	+	+	+	+	+	+	+
1	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	822	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	145	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	325	1
2	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	866	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	122	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	802	2
3	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	873	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	873	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	823	3
4	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	874	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	874	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	825	4
5	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	901	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	901	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	908	5
6	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	915	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	915	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	922	6
7	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	902	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	902	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	869	7
8	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	916	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	916	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	877	8
9	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	903	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	903	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	909	9
10	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	917	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	917	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	923	10
11	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	181	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	181	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	907	11
12	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	183	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	183	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	921	12
13	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	868	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	868	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	185	13
14	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	875	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	875	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW	023	14
15	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	867	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	867	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW		15
16	X1 /001.2 H05V-K 1.0MM2 SW	X8 /002.3 H05V-K 1.0MM2 SW	875	X1 /001.5 H05V-K 1.0MM2 SW	X3 /001.3 H05V-K 1.0MM2 SW	875	X8 /002.4 H05V-K 1.0MM2 SW	X1 /001.4 H05V-K 1.0MM2 SW	X3 /001.4 H05V-K 1.0MM2 SW		16
+	+	+	+	+	+	+	+	+	+	+	+

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

05.04.2007
 H10115ND
 S01
 ADAN

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V=L14	/S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	CIRCUIT-BREAKER		+S1A.R	/S01
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet 67
NO.	Alteration	Date	Name	Sld.	Iss.by:	Iss.for	14	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.

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	-X1 /D03.6	31	B01	-X1 /D03.6	30	1
2	A02	B02	-X1 /D03.2	-XPE /D03.6	25	D02	-XPE /D03.6	PE	2
3	A03	B03	-X1 /D03.2	-X1 /D03.6	34	D03	-X1 /D03.6	GN/ YE	3
4	A04	B04	-X1 /D03.3	-X1 /D03.6	37	D04	-X1 /D03.6		4
5	A05	B05	-X1 /D03.2	-X1 /D03.6	26	D05	-X1 /D03.6		5
6	A06	B06	-XPE /D03.2	-XPE /D03.6	PE	D06	-XPE /D03.6		6
7	A07	B07	-X1 /D03.4	-X1 /D03.6	32	D07	-X1 /D03.6		7
8	A08	B08	-X1 /D03.4	-X1 /D03.6	27	D08	-X1 /D03.6		8
9	A09	B09	-X1 /D03.4	-X1 /D03.6	35	D09	-X1 /D03.6		9
10	A10	B10	-X1 /D03.5	-X1 /D03.6	38	D10	-X1 /D03.6		10
11	A11	B11	-X1 /D03.4	-X1 /D03.6	28	D11	-X1 /D03.6		11
12	A12	B12	-XPE /D03.4	-XPE /D03.6	PE	D12	-XPE /D03.6		12
13	A13	B13	-X1 /D03.5	-X1 /D03.6	33	D13	-X1 /D03.6		13
14	A14	B14	-X1 /D03.5	-X1 /D03.6	29	D14	-X1 /D03.6		14
15	A15	B15	-X1 /D03.6	-X1 /D03.6	36	D15	-X1 /D03.6		15
16	A16	B16	-X1 /D03.6	-X1 /D03.6	39	D16	-X1 /D03.6		16
									+

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

HJ0115ND
=L14+S1A
ADAN

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL K051CE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V=L14	7	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	FAN		+S1A.R	7	8
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet70	93Sh.
NO.	Alteration	Date	Name	Std.	Iss.for	Iss.by:	14	CROSS COUPLING	D009781.02.614-3.AHA		

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:											
				STANDARD: H07V-K 1.5MM2				-X04															
RÜCK-REF.		LTG (ø IN MM2) CABLE		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG.		PIN		LTG (ø IN MM2) CABLE		CORE		REMARK	
/600.6						-X0		7				A01		+S1B.R-X0		5							
/600.6						-X0		9		CBF2'		A02		+S1B.R-X0		7		H05V-K		1.0MM2		SW	
/600ST.1												A03											
/600ST.1												A04											
/600ST.1												A05											
/600ST.1												A06											
/600ST.1												A07											
/600ST.1												A08											
/600ST.1												A09											
/600ST.1												A10											
/600ST.1												A11											
/600ST.1												A12											
/600ST.1												A13											
/600ST.1												A14											
/600ST.1												A15											
/600ST.1												A16											
/N01.6						-X0		092		ACR+		B01		+S1B.R-X1		141							
/N01.6						-X0		096		TRANSFER TRIPPING		B02		+S1B.R-X1		142							
/N01.6						-X0		098		I>		B03		+S1B.R-X1		143							
/N01.7						-X0		094		ACR-		B04		+S1B.R-X1		144							
/600ST.2												B05											
/600ST.2												B06											
/601.6						-X1		41		127L1		B07		+S1B.R-X1		21							
/601.6						-X1		42		N		B08		+S1B.R-X1		25							
/604.7						-X1		43		127L1		B09		+S1B.R-X1		43							
/604.7						-X1		44				B10		+S1B.R-X1		35							
/604.8						-X1		45				B11		+S1B.R-X1		46							
/604.7						-X1		46				B12		+S1B.R-X1		45							
/600ST.2												B13											
/600ST.2												B14											
/600ST.2												B15											
/600ST.2												B16											
/602.6						-X1		182		DRAWING UNIT RELEASE		C01		+S1B.R-X0		030							
/602.4						-X1		183				C02		+S1B.R-X1		181							
/600ST.2												C03											
/600ST.2												C04											
/601.4						-X0		030		DRAWING UNIT RELEASE		C05		+S1B.R-X1		185							
/601.4						-X1		185				C06		+S1B.R-X1		186							
/600ST.2												C07											
/600ST.2												C08											
AS BUILT		05.12.2005		AD		Date		06.06.2005		IUS STEEL KÖSTLER/SLOVAKIA		PLUG DIAGRAM		50.3023.01.A3.741.230		VI=L14							
Fact.-Rev.		09.11.2005		AD		Drawn ADAM		50.3023.01		NIEDERSPG.-SCHR.A-		NIEDERSPG.-SCHR.B				+S1A.R						/S40	
Approval		20.09.2005		AD		Check GROHMANN		SUBSTATION T80		Issued by:		14		Type: 06		CROSS COUPLING		D009781.02.614-3.AHA				Sheet 68	
Alteration		Date		Name/Sid		Iss for		Orig:		1		4		5		6		7				8	

1		2		3		4		5		6		7		8									
ASSEMBLY/INSTRUCT.				CABLE MATERIAL				TERM. TYPE															
STANDARD: H07V-K 1.5MM2				STANDARD: BK				-X04				STANDARD:											
Rück-REF.		LTG (ø IN MM2) CABLE		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG.		PIN		LTG (ø IN MM2) CABLE		CORE		REMARK	
/00ST.2												009											
/00ST.2												010											
/00ST.2												011											
/00ST.2												012											
/00ST.2												013											
/00ST.2												014											
/00ST.2												015											
/00ST.2												016											
/001.6								305		102L+		D01				+S1B.R -X3		301					
/00ST.3												D02											
/00ST.3												D03											
/001.5								328				D04				+S1B.R -X3		305					
/001.6								330				D05				+S1B.R -X3		307					
/003.4								805		03L+		D06				+S1B.R -X8		801					
/00ST.3												D07											
/00ST.3												D08											
/003.4								828				D09				+S1B.R -X8		805					
/003.4								829				D10				+S1B.R -X8		807					
/00ST.3												D11											
/005.3								842				D12				+S1B.R -X8		808					
/005.4								844				D13				+S1B.R -X8		809					
/00ST.3												D14											
/00ST.3												D15											
/005.7								846				D16				+S1B.R -X8		810					

03 AS BUILT		05.12.2005		AD		Date		05.06.2005		US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM		50.3023.01 A3.741.230		VI=L14			
02 Fact.-Rev.		09.11.2005		AD		Drawn ADAM		50.3023.01		NIEDERSPG.-SCHR.A-		NIEDERSPG.-SCHR.B		Type: 06		+S1A.R			
01 Approval		20.08.2005		AD		Check GROHMANN		SUBSTATION T80		PANEL		CROSS COUPLING		D009781.02.614-3.AHA		Sheet 69			
NO Alteration		Date		Name/Std.		Iss.for		Iss.by:		14		5		6		7		8	

[illegible]

[illegible]

3	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.747.230		V=L14
2	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01			+SIB.R	/ K11	
1	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T60	AREVA	PANEL 14	Type: 06	D009781.02.614-3.AHA	
1	Alteration			Name/Std.		Orig.:			Iss. for	GROSS COUPLING	93Sh.

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	V=L14 S1B.R	50.3023.01.A3.74.7.230	Sheet/75 / K30
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/Sid.	Orig.	Iss. for	Iss. by:					
								PANEL	Type: 06 GROSS COUPLING	D009781.02.614-3.AHA	93Sh.

003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM PANEL 14	50.3023.01.A3.741.230 V=L14 +S18.R	Sheet 76 93Sh.
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80				
INC.	Alteration	Date	Name	Std.	Qrig:	Iss. for	Iss. by:	14	009781.02.614-3. AHA	

D00978102 Copyright as per DIN 34 to be observed!

09.01.2007

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	

03	AS BUILT	06.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM			50_3023_01_A3_747_230		V=L14
02	Fact.-Rev.	06.11.2005	AD	Drawn	ADAN	50_3023_01							/ KFE
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80							Sheet 78
ND.	Alteration			Date	Name	Std.		Orig.	iss for	iss by:	Type: 06 CROSS COUPLING		D009781.02.614-3.AHA 93Sh.

CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed!

00978102

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CROSS CONNECT. LIST
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	Sid.	Orig.	Iss.for		
								14
								RELAY BOX
								PANEL
								50.3023.01.A3.741.230
							V = 14	
							*S18_R	
							Typ: 06	
							CROSS COUPLING	
								D009781-02.614-3.AHA
								Sheet/79
								93Sh

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

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

A			B			C			
+		+							+
1	A01	B01		C01	-X3	D01	/001.6	H05V-K 1.0mm2 SW	307
2	A02	B02		C02	-X8	D02	/003.4	H05V-K 1.0mm2 SW	801
3	A03	B03		C03	-X8	D03	/003.4	H05V-K 1.0mm2 SW	805
4	A04	B04		C04	-X8	D04	/003.4	H05V-K 1.0mm2 SW	807
5	A05	B05		C05	-X0	D05	/002.2	H05V-K 1.0mm2 SW	903
6	A06	B06		C06	-X0	D06	/002.2	H05V-K 1.0mm2 SW	910
7	A07	B07		C07	-X3	D07	/002.3	H05V-K 1.0mm2 SW	904
8	A08	B08		C08	-X3	D08	/002.3	H05V-K 1.0mm2 SW	911
9	A09	B09		C09	-X3	D09	/002.4	H05V-K 1.0mm2 SW	905
10	A10	B10		C10	-X3	D10	/002.4	H05V-K 1.0mm2 SW	912
11	A11	B11	901	C11	-X3	D11	/002.2	H05V-K 1.0mm2 SW	902
12	A12	B12	908	C12	-X3	D12	/002.2	H05V-K 1.0mm2 SW	909
13	A13	B13		C13	-X1	D13	/001.4	H05V-K 1.0mm2 SW	181
14	A14	B14		C14	-X1	D14	/001.4	H05V-K 1.0mm2 SW	023
15	A15	B15		C15	-X3	D15	/001.6	H05V-K 1.0mm2 SW	
16	A16	B16		C16	-X3	D16	/001.5	H05V-K 1.0mm2 SW	
+									+

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

05.01.2007
 HJ015ND
 S014+51B
 ADAM

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V = L14	/ S01
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER		+S1B.R	Sheet 80
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80	PANEL			93Sh.
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:	CROSS COUPLING	D009781.02.614-3. AHA	
1					4	14			
2					3	5			
3					6	7			
4					7	8			

TERMINAL DIA. , 64-POLE , FAN SOCKET

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

A			B			C			D			E			F		
+			+			+			+			+			+		
1	A01	B01	-X1 /004.2	31	-X1 /004.6	1	30										
2	A02	B02	-X1 /004.2	25	-XPE /004.6 H05V-K 1.0MM2 GN/ YE	2	PE										
3	A03	B03	-X1 /004.3	34		3											
4	A04	B04	-X1 /004.3	37		4											
5	A05	B05	-X1 /004.3	26		5											
6	A06	B06	-XPE /004.2 H05V-K 1.0MM2 GN/ YE	PE		6											
7	A07	B07	-X1 /004.4	32		7											
8	A08	B08	-X1 /004.4	27		8											
9	A09	B09	-X1 /004.4	35		9											
10	A10	B10	-X1 /004.5	38		10											
11	A11	B11	-X1 /004.4	28		11											
12	A12	B12	-XPE /004.4 H05V-K 1.0MM2 GN/ YE	PE		12											
13	A13	B13	-X1 /004.5	33		13											
14	A14	B14	-X1 /004.5	29		14											
15	A15	B15	-X1 /004.6	36		15											
16	A16	B16	-X1 /004.7	39		16											
+			+			+			+			+			+		

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V=L14	/S101
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	FAN		+S1B.R	
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			
NO.	Alteration	Date	Name	Sid.	Iss.for	Iss.by:	14	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.

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

D00978102

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	C01	1	1	-B103 /D03.6	D01	1	5	1	5			
2	A02		B02	-E101 /D03.2	C02	2	2	-E103 /D03.6	D02	2	PE GN/ YE	2	PE GN/ YE			
3	A03		B03	-B101 /D03.2	C03	3	3		D03	3		3				
4	A04		B04	-B101 /D03.3	C04	4	4		D04	4		4				
5	A05		B05	-B101 /D03.2	C05	5	5		D05	5		5				
6	A06		B06	-E101 /D03.2	C06	PE GN/ YE	PE GN/ YE		D06	PE GN/ YE						
7	A07		B07	-E102 /D03.4	C07	1	1		D07	1		1				
8	A08		B08	-E102 /D03.4	C08	2	2		D08	2		2				
9	A09		B09	-B102 /D03.4	C09	3	3		D09	3		3				
10	A10		B10	-B102 /D03.5	C10	4	4		D10	4		4				
11	A11		B11	-B102 /D03.4	C11	5	5		D11	5		5				
12	A12		B12	-E102 /D03.4	C12	PE GN/ YE	PE GN/ YE		D12	PE GN/ YE						
13	A13		B13	-E103 /D03.5	C13	1	1		D13	1		1				
14	A14		B14	-E103 /D03.5	C14	2	2		D14	2		2				
15	A15		B15	-B103 /D03.6	C15	3	3		D15	3		3				
16	A16		B16	-B103 /D03.6	C16	4	4		D16	4		4				
																+

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

H0115ND
L14+S2A
S101
ADAN

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUS DIAGRAM	50.3023.01.A3.741.230	V	L14	7	5101
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	FAN			+S2A	7	5101
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL					Sheet 83
NO.	Alteration	Date	Name	Std.	Iss.for	Iss.by:	14	CROSS COUPLING	D009781.02.614-3.AHA	Typ: 06	93Sh.	

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D04	(Aderverbindung)		-X201	C01 -E101	1				A
D04	N								
D04	(Aderverbindung)		-X201	C02 -E101	2				
D04	(Aderverbindung)		-X201	C03 -B101	3				
D04	(Aderverbindung)		-X201	C04 -B101	4				
D04	N								B
D04	(Aderverbindung)		-X201	C05 -B101	5				
D04	(Aderverbindung)		-X201	C06 -E101	PE				
D04	(Aderverbindung)		-X201	C07 -E102	1				
D04	N								
D04	(Aderverbindung)		-X201	C08 -E102	2				C
D04	(Aderverbindung)		-X201	C09 -B102	3				
D04	(Aderverbindung)		-X201	C10 -B102	4				
D04	N								
D04	(Aderverbindung)		-X201	C11 -B102	5				
D04	(Aderverbindung)		-X201	C12 -E102	PE				D
D04	(Aderverbindung)		-X201	C13 -E103	1				
D04	N								
D04	(Aderverbindung)		-X201	C14 -E103	2				
D04	(Aderverbindung)		-X201	C15 -B103	3				
D04	(Aderverbindung)		-X201	C16 -B103	4				E
D04	N								
D04	(Aderverbindung)		-X201	D01 -B103	5				
D04	(Aderverbindung)		-X201	D02 -E103	PE				
D04	(Aderverbindung)								F

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA		CROSS CONNECT. LIST	50.3023.01.A3.741.230	V -L14		
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01					PANEL	/ 020
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80					PANEL	Sheet 84
NO.	Alteration	Date	Name	Std.	Orig.:	iss. for	iss. by:	14	CROSS COUPLING	D009781.02.614-3. AHA	99Sh.	

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	1	1	-B103 /004.6	1	5	+
2	A02	B02				-E101 /004.2	2	2	-E103 /004.6	2	PE GN/ YE	
3	A03	B03				-B101 /004.3	3	3		3		
4	A04	B04				-B101 /004.3	4	4		4		
5	A05	B05				-B101 /004.3	5	5		5		
6	A06	B06				-E101 /004.2	PE GN/ YE	6				
7	A07	B07				-E102 /004.4	1	1		7		
8	A08	B08				-E102 /004.4	2	2		8		
9	A09	B09				-B102 /004.4	3	3		9		
10	A10	B10				-B102 /004.5	4	4		10		
11	A11	B11				-B102 /004.4	5	5		11		
12	A12	B12				-E102 /004.4	PE GN/ YE	12				
13	A13	B13				-E103 /004.5	1	1		13		
14	A14	B14				-E103 /004.5	2	2		14		
15	A15	B15				-B103 /004.6	3	3		15		
16	A16	B16				-B103 /004.7	4	4		16		
												+

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

HJ0115ND
=L14-S2B
S101
ADAN

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V1-L14	7 S101
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	FAN		+S2B	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet 85
NO.	Alteration	Date	Name	Sid.	Iss. for	Iss. by:	14	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.

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				
P02	0 1.0MM2	H05V-K SW	-S1	-01 42 -S62	14				
P02	DRAWG UNIT RELEASE 0 1.0MM2	H05V-K SW	-X01	B11 -S1	-01 41				
P02	0 1.0MM2	H05V-K SW	-X01	B12 -S62	11				
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				
GROSS CONNECT. LIST SWITCHING TRUCK PANEL 14									
50.3023.01.A3.741.230									
V = 1.14 +53A									
7 030									
D009781.02.614-3. AHA									
Typ: 06 CROSS COUPLING									
93Sh.									

CROSS CONNECTION										6	7	8
REFERENCE	POTENTIAL ITEM GR. 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	A14 -S1	-001 24							
001	102L+ 0 1.0MM2	H05V-K SW	-X01	C15 -S1	-01 11 -S1	-01 13						
001	0 1.0MM2	H05V-K SW	-X01	C16 -S1	-01 12							
001	0 1.0MM2	H05V-K SW	-X01	D01 -S1	-01 14							
002	03L+ 0 1.0MM2	H05V-K SW	-X01	A15 -S1	-001 31 -S1	-001 43						
002	0 1.0MM2	H05V-K SW	-X01	A16 -S1	-001 32							
002	0 1.0MM2	H05V-K SW	-X01	B01 -S1	-001 44							
002	03L+ 0 1.0MM2	H05V-K SW	-X01	D02 -S1	-01 21 -S1	-01 23						
002	0 1.0MM2	H05V-K SW	-X01	D03 -S1	-01 22							
002	0 1.0MM2	H05V-K SW	-X01	D04 -S1	-01 24							
004	03L+ 0 1.0MM2	H05V-K SW	-X01	A07 -S24	-001 11							
004	0 1.0MM2	H05V-K SW	-X01	A08 -S24	-001 12							
004	0 1.0MM2	H05V-K SW	-X01	A09 -S24	-001 14							
007	0 1.0MM2	H05V-K SW	-X01	B02 -S1	-001 51 -S1	-001 63						
007	0 1.0MM2	H05V-K SW	-X01	B03 -S1	-001 52							
007	0 1.0MM2	H05V-K SW	-X01	B04 -S1	-001 64							
007	0 1.0MM2	H05V-K SW	-X01	B13 -S42	-001 11							
007	0 1.0MM2	H05V-K SW	-X01	B14 -S42	-001 14							
007	0 1.0MM2	H05V-K SW	-X01	B15 -S25	-001 11							
007	0 1.0MM2	H05V-K SW	-X01	B16 -S25	-001 14							
Copyright as per DIN 34 to be observed!										50.3023.01.A3.741.230		
D00978102										V=L14 +S3A		
H0115ND 03L+ 14+S3A										/ 031		
ADAM										Sheet 87		
05.01.2007										93Sh.		
03 AS BUILT 05.12.2005 AD Date 05.06.2005 US STEEL KOSICE/SLOVAKIA										50.3023.01.A3.741.230		
02 Fact.-Rev. 03.11.2005 AD Drawn ADAM										V=L14 +S3A		
01 Approval 20.09.2005 AD Check GROHMANN										/ 031		
NO. Alteration Date Name Std. Orig. Iss.for Iss.by:										Typ: 06		
										CROSS COUPLING		
										D009781.02.614-3.AHA		
										Sheet 87		
										93Sh.		

D0978102

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ADAM

05.01.2007

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		
007	0 1.0MM2	H05V-K SW	-X01	D07 -S1	-Q1 33												
007	0 1.0MM2	H05V-K SW	-X01	D08 -S1	-Q1 34												
R01	0 1.0MM2	H05V-K SW	-X01	A10 -S41	-001 11												
R01	0 1.0MM2	H05V-K SW	-X01	A11 -S1	-001 230												
V01	0 1.0MM2	H05V-K SW	-X01	B05 -S1	-001 71												
V01	0 1.0MM2	H05V-K SW	-X01	B06 -S1	-001 72												
V01	0 1.0MM2	H05V-K SW	-X01	B07 -S1	-001 83												
V01	0 1.0MM2	H05V-K SW	-X01	B08 -S1	-001 84												
V01	0 1.0MM2	H05V-K SW	-X01	B09 -S1	-001 91												
V01	0 1.0MM2	H05V-K SW	-X01	B10 -S1	-001 92												
V01	0 1.0MM2	H05V-K SW	-X01	C09 -S1	-001 103												
V01	0 1.0MM2	H05V-K SW	-X01	C10 -S1	-001 104												
V01	0 1.0MM2	H05V-K SW	-X01	C11 -S1	-001 111												
V01	0 1.0MM2	H05V-K SW	-X01	C12 -S1	-001 112												
V01	0 1.0MM2	H05V-K SW	-X01	C13 -S63	14												
V01	0 1.0MM2	H05V-K SW	-X01	C14 -S63	11												
V01	0 1.0MM2	H05V-K SW	-X01	D05 -S1	-Q1 51												
V01	0 1.0MM2	H05V-K SW	-X01	D06 -S1	-Q1 52												
V01	0 1.0MM2	H05V-K SW	-X01	D09 -S1	-Q1 61												
V01	0 1.0MM2	H05V-K SW	-X01	D10 -S1	-Q1 62												

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AS BUILT
Fact.-Rev.
Approval
Alteration

05.12.2005
09.11.2005
20.03.2005
Date

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Drawn
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Name

05.06.2005
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GROHMANN
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US STEEL KOSTE/SLOVAKIA
50.3023.01
SUBSTATION T80

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D0978102

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

GROSS CONNECT. LIST		50.3023.01.A3.741.230	VI=L14
SWITCHING TRUCK			+S3A
PANEL			
14			

Typ: 06		D009781.02.614-3.AHA	8
CROSS COUPLING			
Sheet 88			93Sh.

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

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

A			B			C			D		
+		+									+
1	-001 /L01.2	11	-001 /002.3	-S1	44	-001 /N01.5	-S1	243	-01 /001.3	-S1	14
2	-001 /L01.2	12	-001 /007.2	-S1	51	-001 /N01.5	-F12	C2	-01 /002.4	-S1	21
3	-001 /N01.6	213	-001 /007.2	-S1	52	-001 /N01.5	-S1		-01 /002.4	-S1	22
4	-001 /N01.6	C2	-001 /007.2	-S1	64		-S1		-01 /002.4	-S1	24
5	-001 /N01.7	11	-001 /N01.2	-S1	71	-01 /P01.2	-S1	31	-01 /N01.5	-S1	51
6	-001 /N01.7	12	-001 /N01.2	-S1	72	-S61 /P01.2	-S1	11	-01 /N01.5	-S1	52
7	-001 /N04.3	11	-001 /N01.2	-S1	83		-S1		-01 /007.4	-S1	33
8	-001 /N04.3	12	-001 /N01.2	-S1	84		-S1		-01 /007.4	-S1	34
9	-001 /N04.3	14	-001 /N01.2	-S1	91	-001 /N01.3	-S1	103	-01 /N01.5	-S1	61
10	-001 /N01.3	11	-001 /N01.2	-S1	92	-001 /N01.3	-S1	104	-01 /N01.5	-S1	62
11	-001 /N01.3	230	-01 /P02.4	-S1	41	-001 /N01.3	-S1	111	-01 /N01.4	-S1	43
12	-001 /N01.2	11	-S62 /P02.4	-S1	11	-001 /N01.3	-S1	112	-01 /N01.4	-S1	44
13	-001 /N01.2	12	-001 /N01.3	-S42	11	-S63 /N01.5	-S1	14	-Y1		E1
14	-001 /N01.2	24	-001 /N01.3	-S42	14	-S63 /N01.5	-S1	11	-Y1		E2
15	-001 /N02.3	31	-001 /N01.3	-S25	11	-01 /N01.3	-S1	11			
16	-001 /N02.3	32	-001 /N01.3	-S25	14	-01 /N01.3	-S1	12			
+											+

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

D00978102

05.01.2007
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S014+53A
ADAM

03	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.230	V	414	7	S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+53A		
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL					Sheet 90
NO.	Alteration	Date	Name	Sld.	Iss. for	Iss. by:	14	CROSS COUPLING	D009781.02.614-3.AHA		7	93Sh.

CROSS CONNECTION										1	2	3	4	5	6	7	8
REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6	A	B	C	D	E	F		
	DRWG. UNIT RELEASE																
P01	0 1.0MM2	H05V-K SW	-X02	C13 -S63	14												
P01	0 1.0MM2	H05V-K SW	-X02	C14 -S63	11												
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												
Q01	102L+ 0 1.0MM2	H05V-K SW	-X02	C15 -S1	-02 11 -S1	-02 13											
Q01	0 1.0MM2	H05V-K SW	-X02	C16 -S1	-02 12												
Q01	0 1.0MM2	H05V-K SW	-X02	D01 -S1	-02 14												
Q03	03L+ 0 1.0MM2	H05V-K SW	-X02	D02 -S1	-02 21 -S1	-02 23											
Q03	0 1.0MM2	H05V-K SW	-X02	D03 -S1	-02 22												
Q03	0 1.0MM2	H05V-K SW	-X02	D04 -S1	-02 24												
V02	0 1.0MM2	H05V-K SW	-S1	-02 42 -S62	14												
V02	0 1.0MM2	H05V-K SW	-X02	B11 -S1	-02 41												
V02	0 1.0MM2	H05V-K SW	-X02	B12 -S62	11												
V02	0 1.0MM2	H05V-K SW	-X02	D05 -S1	-02 51												
V02	0 1.0MM2	H05V-K SW	-X02	D06 -S1	-02 52												
V02	0 1.0MM2	H05V-K SW	-X02	D07 -S1	-02 33												
V02	0 1.0MM2	H05V-K SW	-X02	D08 -S1	-02 34												

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05.01.2007

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AS BUILT
Fct.-Rev.
Approval
Alteration

05.12.2005
09.11.2005
20.09.2005
Date

AD
ADAN
Check GROHMANN
Name/Sid.

06.06.2005
Drawn AD
05.3023.01
SUBSTATION T80
Orig.

US STEEL KOSICE/SLOVAKIA
50.3023.01
SWITCHING TRUCK
PANEL
14

ISS. BY:
AREVA

50.3023.01.A3.741.230
V=L14
+S3B
/ Q30
D009781.02.614-3. AHA
93Sh.

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Copyright as per DIN 34 to be observed!

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ADAN
H0115ND
E14+S3B
Q30

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	06.11.2005	AD	Drawn	ADAN	50.3023.01
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Or.ig.	

GROSS CONNECT. LIST		50.3023.01.A3.741.230	V=L14	+S3B	/ Q30
SWITCHING TRUCK		Typ: 06	D009781.02.614-3.AHA		
PANEL		CROSS COUPLING	Sheet 91		
14			93Sh.		



1	2
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REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
V02	0 1.0MM2	H05V-K SW	-X02	D09 -S1	-02 61				A
V02	0 1.0MM2	H05V-K SW	-X02	D10 -S1	-02 62				B
V02	0 1.0MM2	H05V-K SW	-X02	D11 -S1	-02 63				C
V02	0 1.0MM2	H05V-K SW	-X02	D12 -S1	-02 64				D
									E
									F
									G
									H
									I
									J
									K
									L
									M
									N
									O
									P
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									T
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									V
									W
									X
									Y
									Z

Copyright as per DIN 34 to be observed!

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AS BUILT Date 06.06.2005 US STEEL KOSTICE/SLOVAKIA

Fact.-Rev. 06.11.2005 AD Drawn ADAM 50.3023.01

Approval 20.06.2005 AD Check GROHMANN SUBSTATION T80

Alteration Date Name Std. Iss. for Iss. by:

AREVA

CROSS CONNECT. LIST

SWITCHING TRUCK

PANEL

50.3023.01.A3.741.230 V=L14

Typ. 06 / S3B

CROSS COUPLING D009781.02.614-3.AHA

Sheet 92 / 93Sh.

+ +		A		B		C		D		+ +	
1	A01	B01				C01	-02 /001.6	-S1	14	1	
2	A02	B02				C02	-02 /003.4	-S1	21	2	
3	A03	B03				C03	-02 /003.4	-S1	22	3	
4	A04	B04				C04	-02 /003.4	-S1	24	4	
5	A05	B05				C05	-02 /002.2	-S1	51	5	
6	A06	B06				C06	-S61 /002.2	-S1	52	6	
7	A07	B07				C07	-02 /002.3	-S1	33	7	
8	A08	B08				C08	-02 /002.3	-S1	34	8	
9	A09	B09				C09	-02 /002.4	-S1	61	9	
10	A10	B10				C10	-02 /002.4	-S1	62	10	
11	A11	B11	-02 /002.2	41		C11	-02 /002.2	-S1	43	11	
12	A12	B12	-S62 /002.2	11		C12	-02 /002.2	-S1	44	12	
13	A13	B13				C13	-S63 /001.4	-Y1	E1	13	
14	A14	B14				C14	-S63 /001.4	-Y1	E2	14	
15	A15	B15				C15	-02 /001.6	-S1		15	
16	A16	B16				C16	-02 /001.5	-S1		16	

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003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM CIRCUIT-BREAKER PANEL	50.3023.01.A3.741.230		V	=14	
002	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01						+538	/ 501
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					Typ: 06		Sheet93
NO.	Alteration	Date	Name	Std.		Orig.:			iss. for	iss. by:	CROSS COUPLING	D009781.02.614-3.AHA	93Sh.