

AREVA Sachsenwerk GmbH      Geschäftsbereich Energieverteilung      Fachbereich Mittelspannungsschaltanlagen      Königsbrücker Strasse 124      01099 Dresden      Tel.: 0351820-3394      Fax: 0351820-2602

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T81

TRANSFORMER FEEDER  
CIRCUIT DIAGRAM

A = L02

/ A01

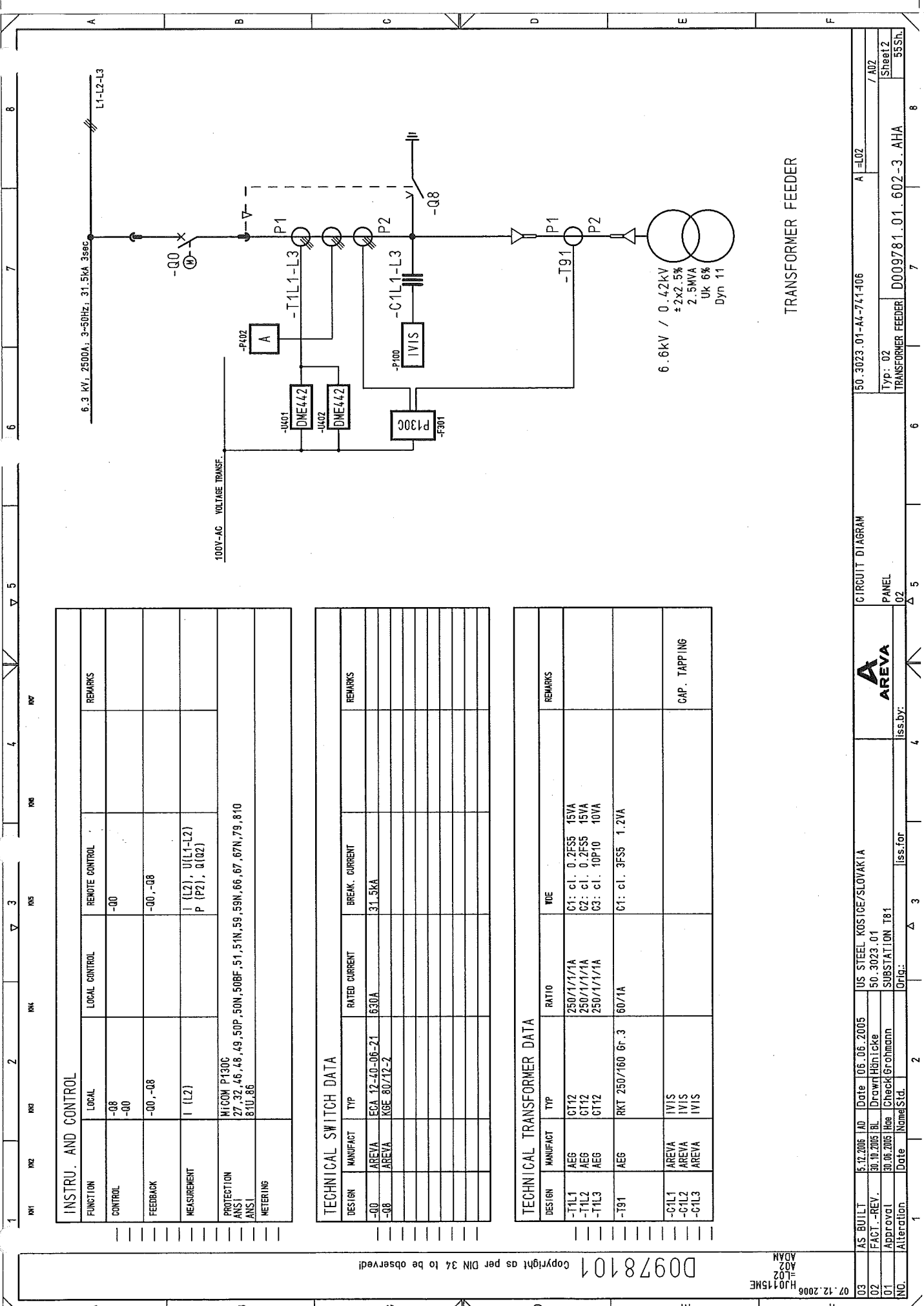
D009781.01. 602-3.AHA

50.3023.01-A4-741-106  
COVER SHEET  
PANEL  
02

DATE :	06.06.2005
prep.:	Hähncke
Check:	Grohmann
Norm :	

07.12.2006 HJO/15ME  
L02  
A01  
ADAM

03 AS BUILT	5.12.2006	AD
02 FACT.-REV.	30.10.2005	BL
01 Approval	30.06.2005	Hae
Nr. Alteration	Date	Name



INSTRU. AND CONTROL				
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-Q8		-Q0	
	-Q0			
FEEDBACK	-Q0, -Q8		-Q0, -Q8	
MEASUREMENT	I (L2)		I (L2), U(L1-L2) P (P2), Q(Q2)	
PROTECTION	MICOM P130C			
ANSI	27, 32, 46, 48, 49, 50P, 50N, 50BF, 51, 51N, 59, 59N, 66, 67, 67N, 79, 810			
METERING	81U, 86			

TECHNICAL SWITCH DATA				
DESIGN	MANUFACT	TYP	RATED CURRENT	BREAK. CURRENT
-Q0	AREVA	ECA 12-40-06-21	630A	31.5kA
-Q8	AREVA	KGE 80/42-2		

TECHNICAL TRANSFORMER DATA				
DESIGN	MANUFACT	TYP	RATIO	VDE
-T1L1	AREVA	GT12	250/1/1/1A	C1: cl. 0.2FS5 15VA
-T1L2	AREVA	GT12	250/1/1/1A	C2: cl. 0.2FS5 15VA
-T1L3	AREVA	GT12	250/1/1/1A	C3: cl. 10P10 10VA
-T91	AREVA	RKT 250/160 Gr. 3	60/1A	C1: cl. 3FS5 1.2VA
-C1L1	AREVA	IVIS		
-C1L2	AREVA	IVIS		
-C1L3	AREVA	IVIS		CAP. TAPPING

07.12.2008  
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	CIRCUIT DIAGRAM	150.3023.01-A4-741406	A	-L02	/A02
02	FACT - REV.	30.10.2005	BL	Drawn	HonTake		50.3023.01					
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81						Sheet 2
NO.	Alteration	Date	Name	Sid.	Iss.	for	Orig.					55 Sh.

003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	Inhaltsverzeichnis	50_3023.01-A4-741406	A = 02	/ B01		
002	FACT. - REV.	30.10.2005	BL	Drawn	Hönicke	50_3023.01							
001	Approval	30.06.2005	Rie	Check	Grohmann	SUBSTATION T81							
NO	Alteration	Date	Name/Sid	iss. for:	iss. by:	Orig.:		PANEL	Type: 02	TRANSFORMER FEEDER	D009781.01_602-3_AHA	Sheet 3	55Sh.

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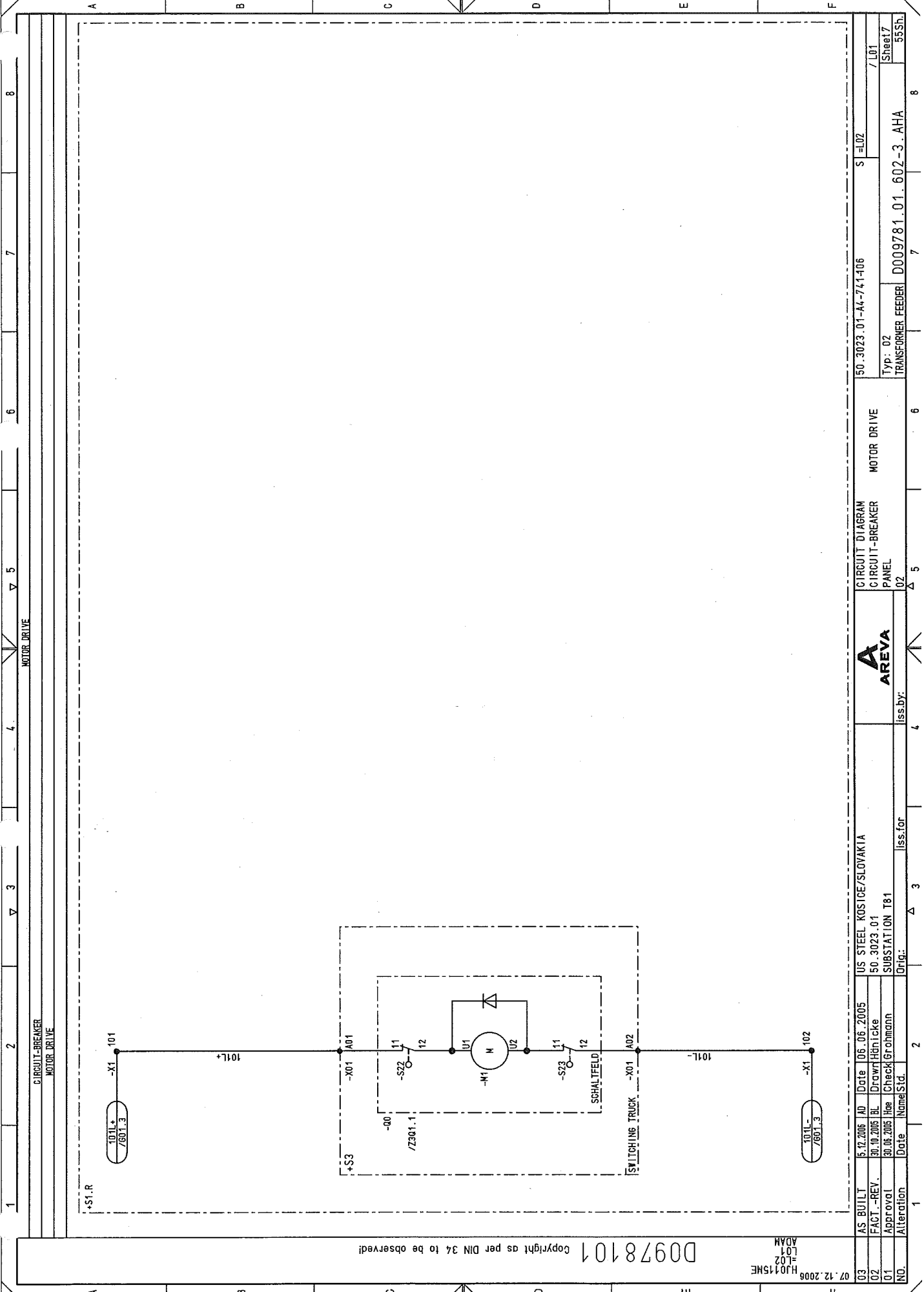
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CLIENT		RELEASE BY		VERSION		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
DOCUMENT NUMBER		DOCUMENT NUMBER		STATUS		MATCHING		ITEM NO.							
A	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	S =L02	Z2T1	32	LIST OF EQUIPMENT		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	S =L02	Z3Q1	33	LIST OF EQUIPMENT		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	S =L02	Z3Q2	34	LIST OF EQUIPMENT		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K01	35	TERMINAL DIAGRAM		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K10	36	TERMINAL DIAGRAM		02			
B	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K30	37	TERMINAL DIAGRAM		02			
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	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K51	40	TERMINAL DIAGRAM		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K60	41	TERMINAL DIAGRAM		02			
C	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K80	42	TERMINAL DIAGRAM		02			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	K81	43	TERMINAL DIAGRAM		02			
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	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	KPE	46	TERMINAL DIAGRAM		02			
D	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	Q10	47	CROSS CONNECT. LIST		RELAY BOX			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	Q11	48	CROSS CONNECT. LIST		RELAY BOX			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	S01	49	PLUG DIAGRAM		CIRCUIT-BREAKER			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.R	Q15	50	CROSS CONNECT. LIST		RELAY BOX			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S1.T	Q20	51	CROSS CONNECT. LIST		PANEL			
E	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S3	Q30	52	CROSS CONNECT. LIST		SWITCHING TRUCK			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S3	Q31	53	CROSS CONNECT. LIST		SWITCHING TRUCK			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S3	Q32	54	CROSS CONNECT. LIST		SWITCHING TRUCK			
	50.3023.01-A4-741-106	D009781.01.602-3.AHA		01	02	03	V =L02 +S3	S01	55	PLUG DIAGRAM		CIRCUIT-BREAKER			
F															

03	AS BUILT	5.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA		Inhaltsverzeichnis		50.3023.01-A4-741-106		A =L02			
02	FACT. -REV.	30.10.2005	BL	Drawn	Hönlacke	50.3023.01		PANEL							
01	Approval	30.06.2005	He	Check	Grohmann	SUBSTATION T81		02							
Alteration		Date	Name	Std.	Iss.	for	Iss.	Iss. by:							



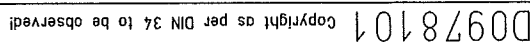




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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-406	S	=L02	/L01
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01	CIRCUIT-BREAKER				
01	Approval	30.06.2005	Hie	Check	Grohmann	SUBSTATION T81	PANEL				
NO.	Alteration	Date	Name	Std.	Iss.for	Orig.	Iss.by:	TRANSFORMER FEEDER	D009781.01.602-3.AHA	55Sh.	Sheet 7



03	AS BUILT	5.12.2005	AU	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
02	FACT - REV.	30.10.2005	BL	Drawn	Hönicke	50.3023.01
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTANTION T81
00	Alteration	Date				Orig.:
NO.						Iss.:

**CIRCUIT DIAGRAM**  
**CONTROL**

50.3023.01-A4-741-106

Typ: 02	D009781.01.602-3.AHA
TRANSFORMER FEEDER	

Sheet 8
55SH



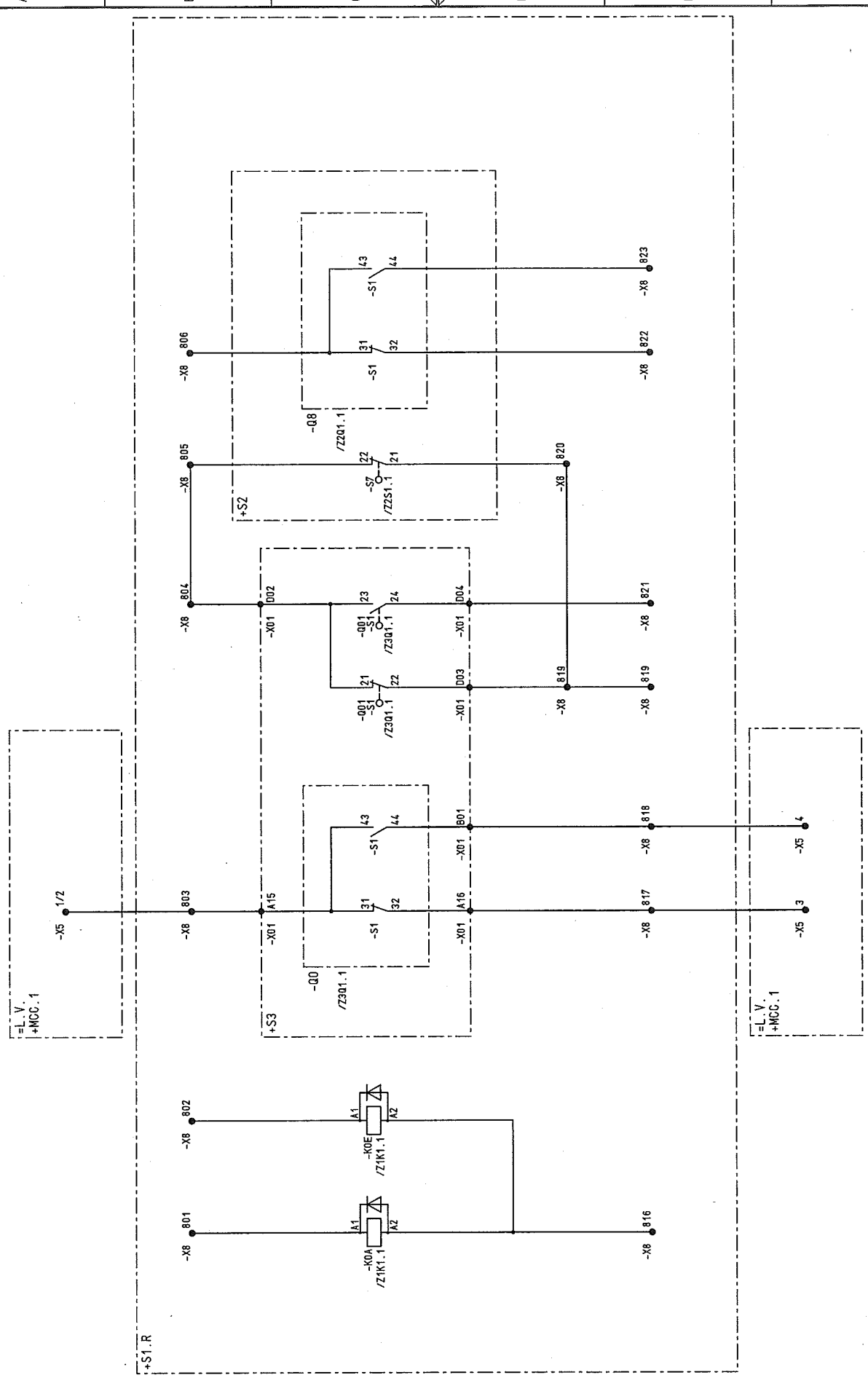




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02	FACT. -REV.	30.10.2005	BL	Drawn	Hentke	50.3023.01		POSITION INDICA.			
0107	Approval	30.05.2005	Hee	Check	Grohmann	SUBSTATION T81		PANEL		Type: 02	
NO.	Alteration	Date	Name	Std.		Orig.				TRANSFORMER FEEDER	D009781.01.602-3.AHA
							ISS.BY:	02			55sh.

POSITION INDICATOR

CIRCUIT-BREAKER OFF ON  
 REMOTE OFF REMOTE ON  
 TEST. POS. SERVICE POSITION OR NOT IN SERVICE OFF ON  
 CIRCUIT BREAKER WITHDRAWN  
 EARTHING SWITCH OFF ON



NO.	03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-06	S	=L02	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	INTERFERENCE					7
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81	PANEL					6
	Alteration	Date	Nome	Std.		Orig.	Iss. by:	Iss. for	Typ: 02	TRANSFORMER FEEDER	D009781.01.602-3.AHA	5
												4
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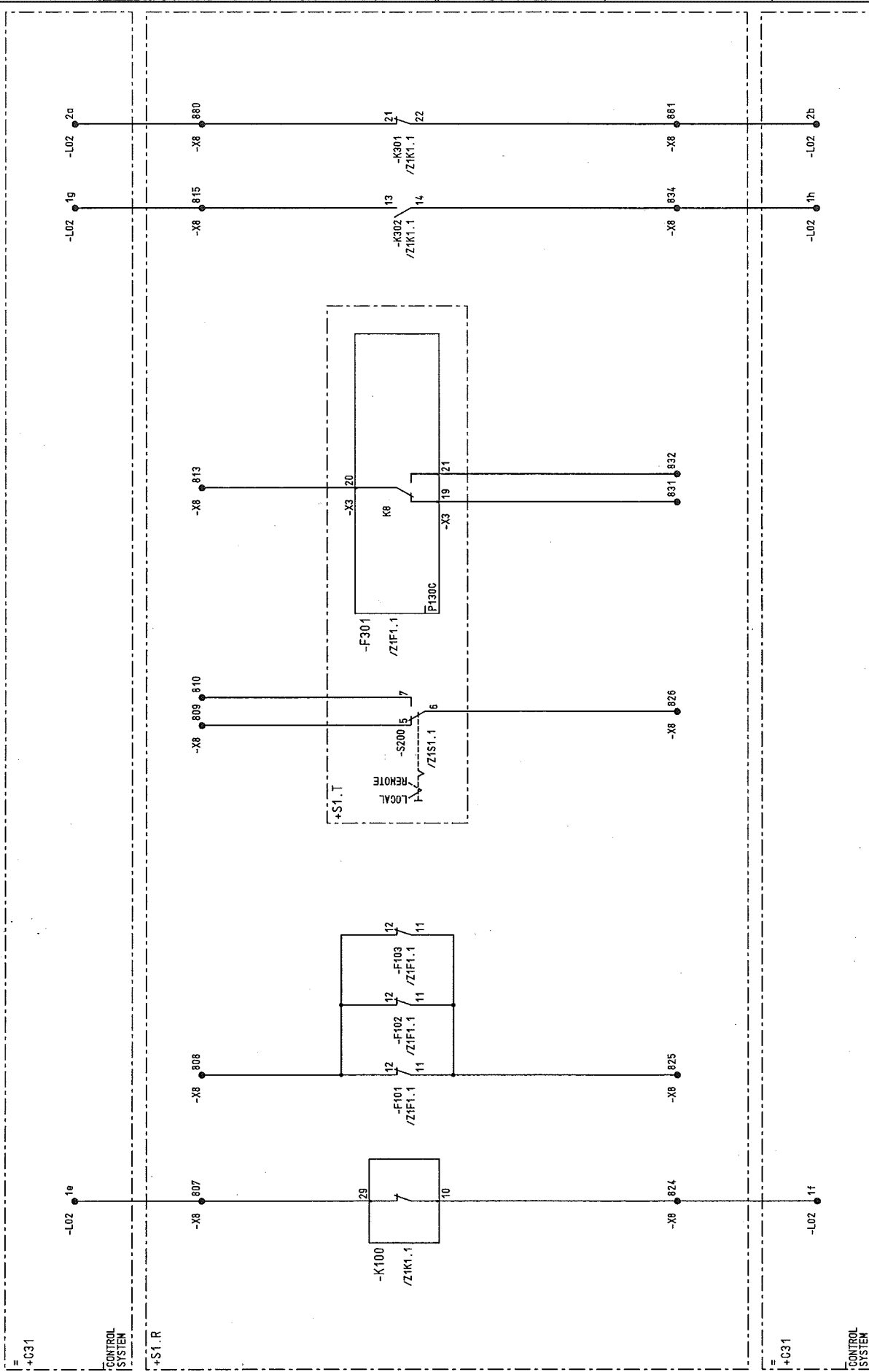
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002  
L02

03	AS BUILT	15.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
02	FACT.-REV.	30.10.2005	BL	Drawn	Hranicka	50.3023.01
01	Approval	30.06.2005	Ree	Checked	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Iss.	for

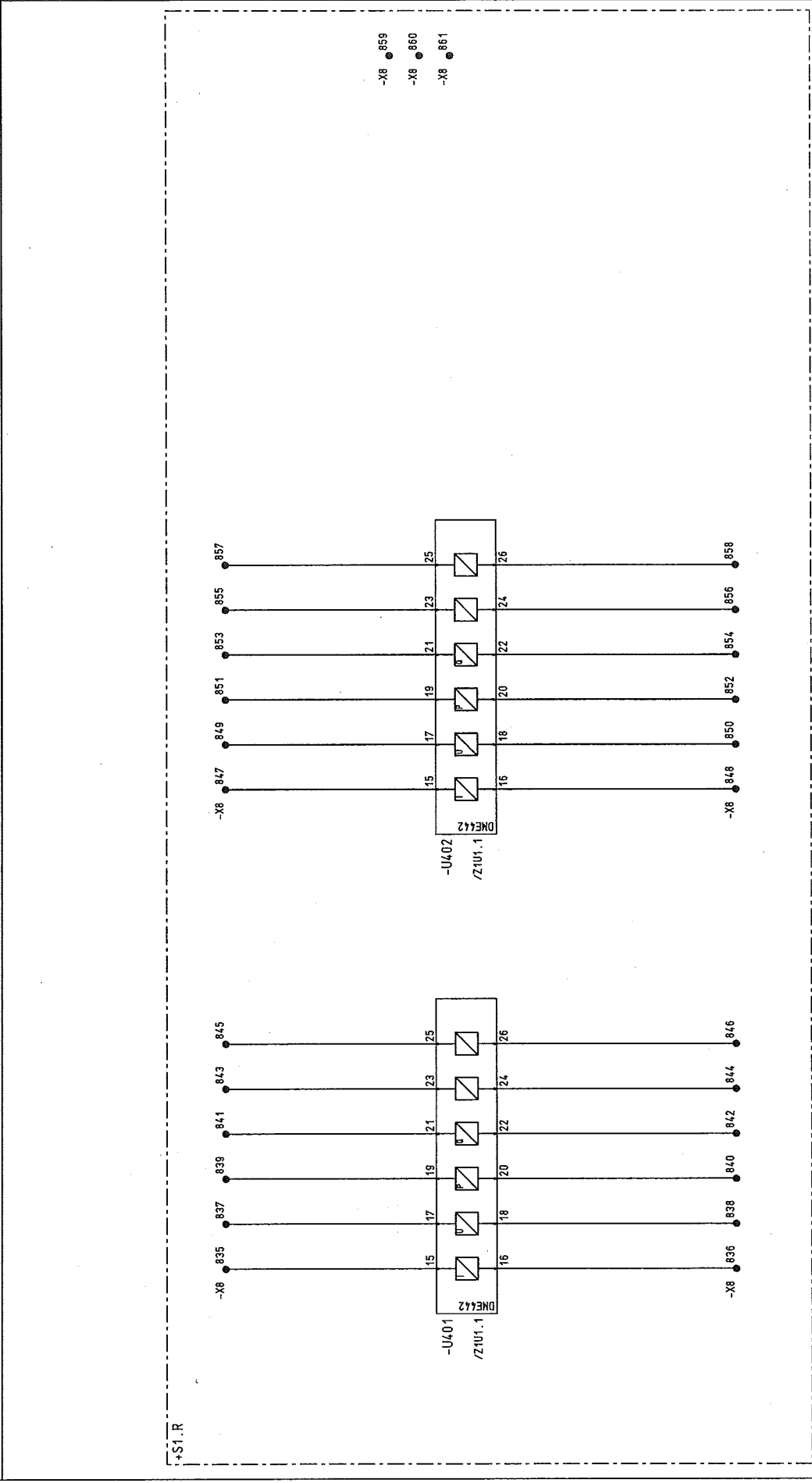
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ISS BY:	02	INTERFACE
ISS BY:	02	PANEL

Typ: 02	TRANSFORMER FEEDER	D009781.01.602-3.AHA
Sheet 11	55 Sh.	8



1 2 3 4 5 6 7 8

MEASUREMENT		
VOLTAGE	POWER	
CURRENT	ACTIVE POWER	



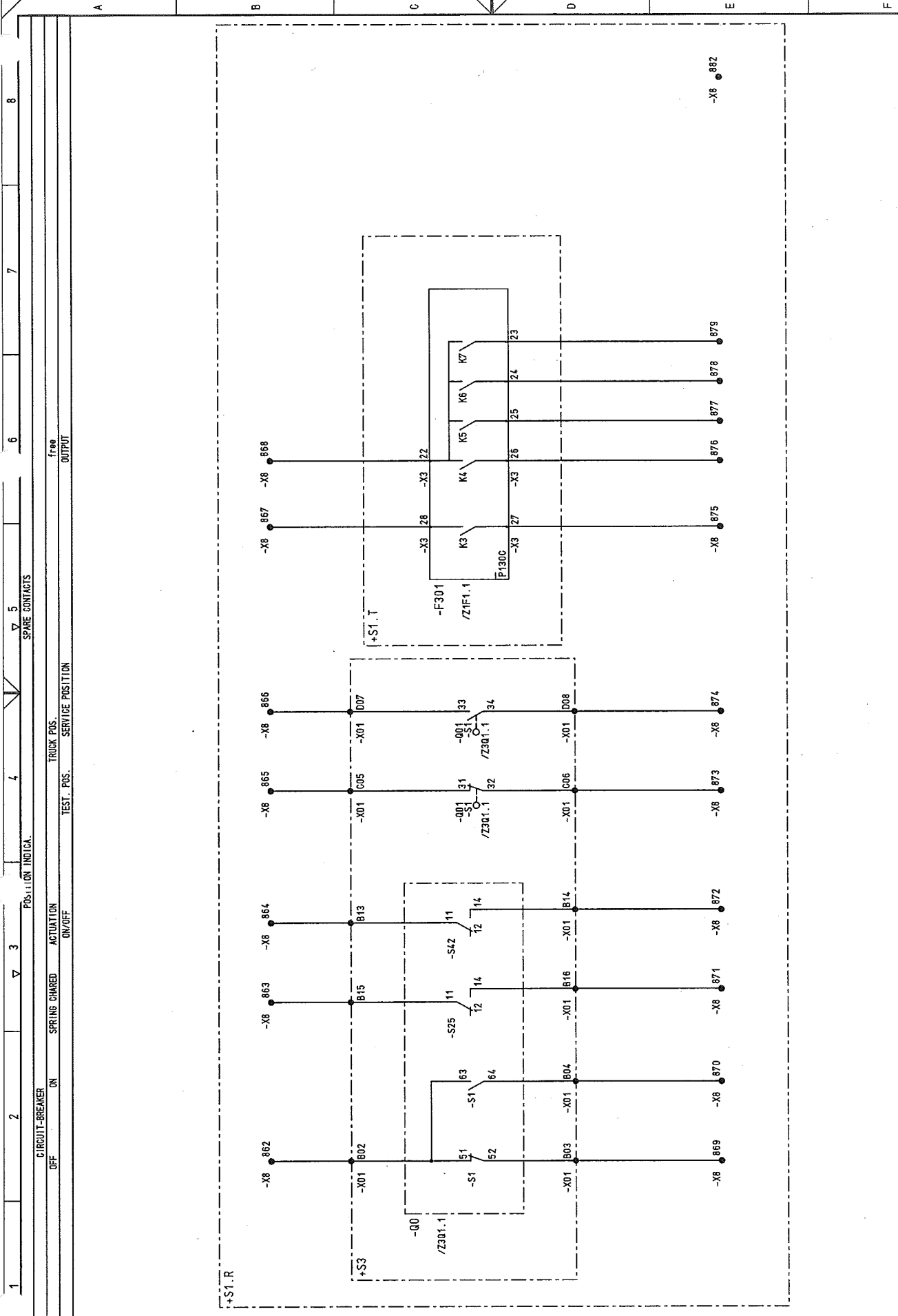
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07.12.2006 HJ0115ME  
002  
ADAM

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-406	S	L02	/ 004
02	FACT. - REV.	30.10.2005	BL	Drawn	Hönigke	50.3023.01	INTER-FACE				
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81	PANEL				Sheet 12
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	02	TRANSFORMER FEEDER	D009781.01.602-3.AHA		55Sh

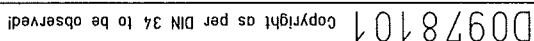
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01-A4-741-406	S	L02	/ 005
02	FACT. - REV.	30.10.2005	BL	Drawn	Häntike	50.3023.01				Sheet 13
01	Approval	30.06.2005	Hoe	Checked	Grahamm	SUBSTATION T81				555h
NO.	Alteration	Date	Named	Sld.	Iss. for	Iss. by:	TRANSFORMER FEEDER	D009781.01.602-3.AHA		

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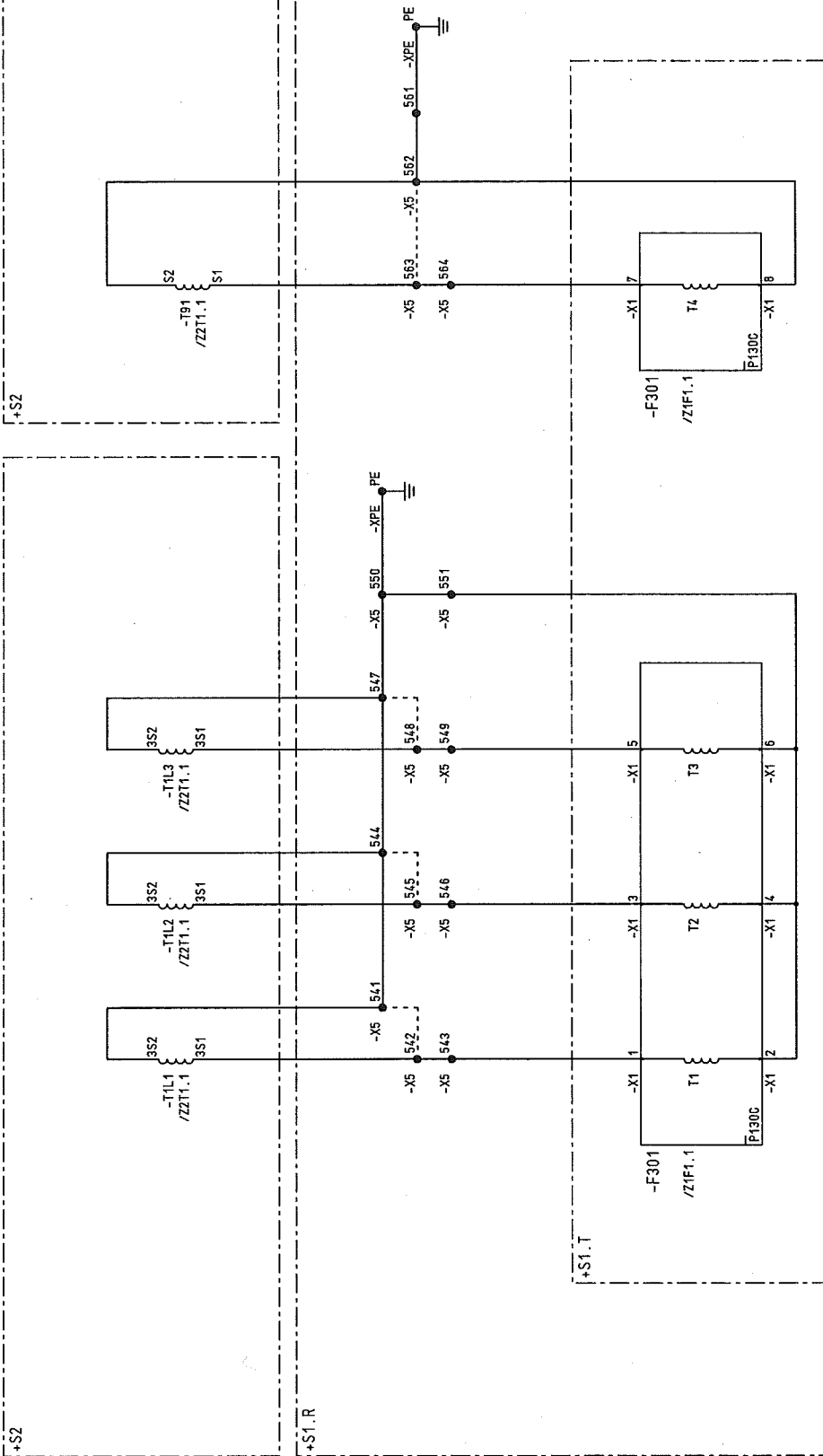
07.12.2005  
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R01  
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-406	S	=I02	/ S02
02	FACT - REV.	30.10.2005	BL	Drawn	Hönlcke	50.3023.01	CURR. TRANSF.				
01	Approval	30.06.2005	Re	Check	Grohmann	SUBSTATION T81	PANEL				Sheet 16
NO.	Alteration	Date	Name	Std.		Orig.	Iss. for	Iss. by:	TRANSFORMER FEEDER	D009781.01.602-3.AHA	55Sh.



PROTECTION  
EARTH FAULT

CURRENT

PROTECTION

L1 L2 L3 N

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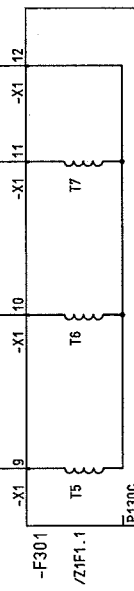
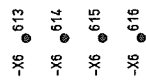
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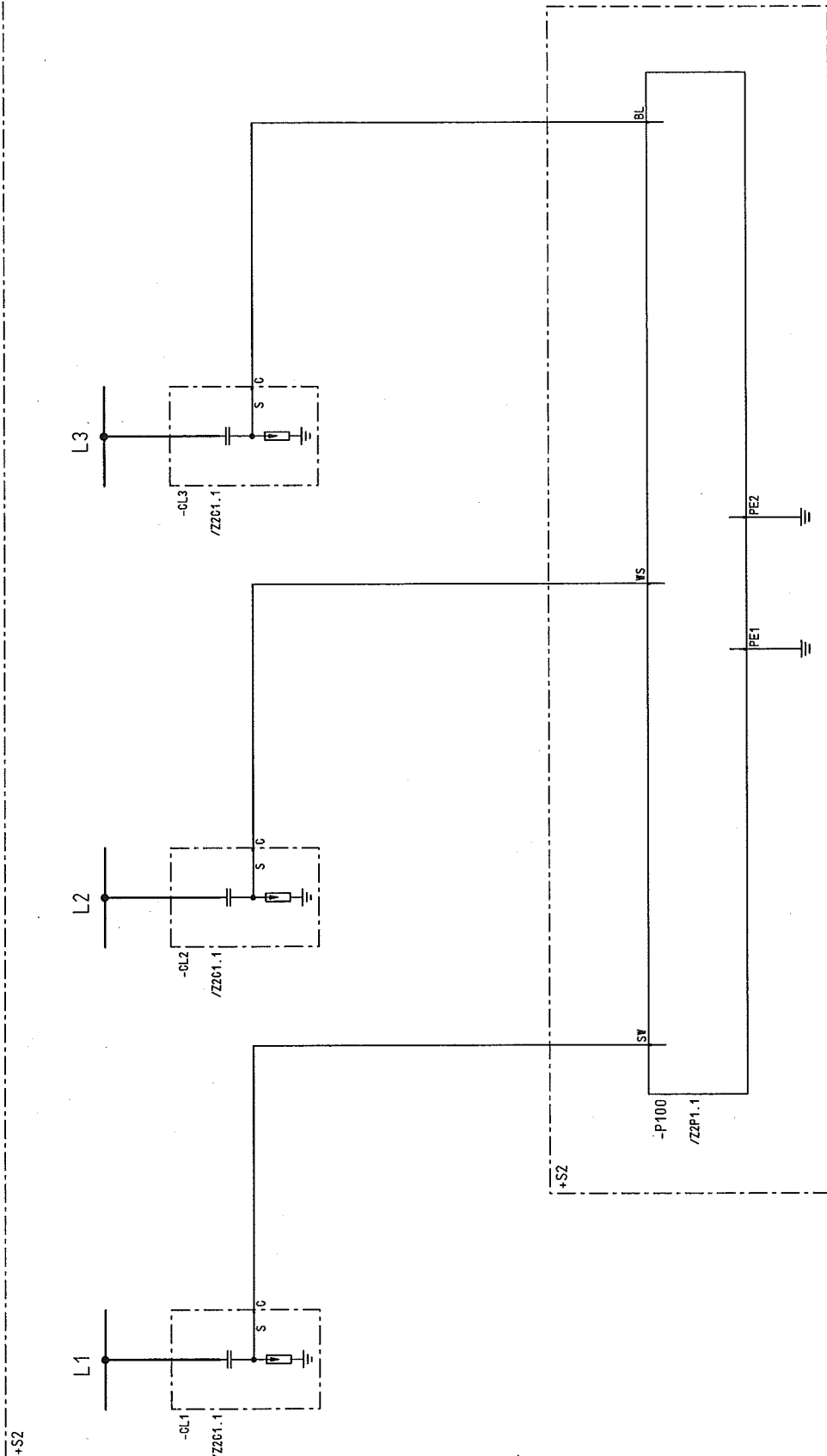
VOLTAGE TRANSF.

## **PROTECTION**

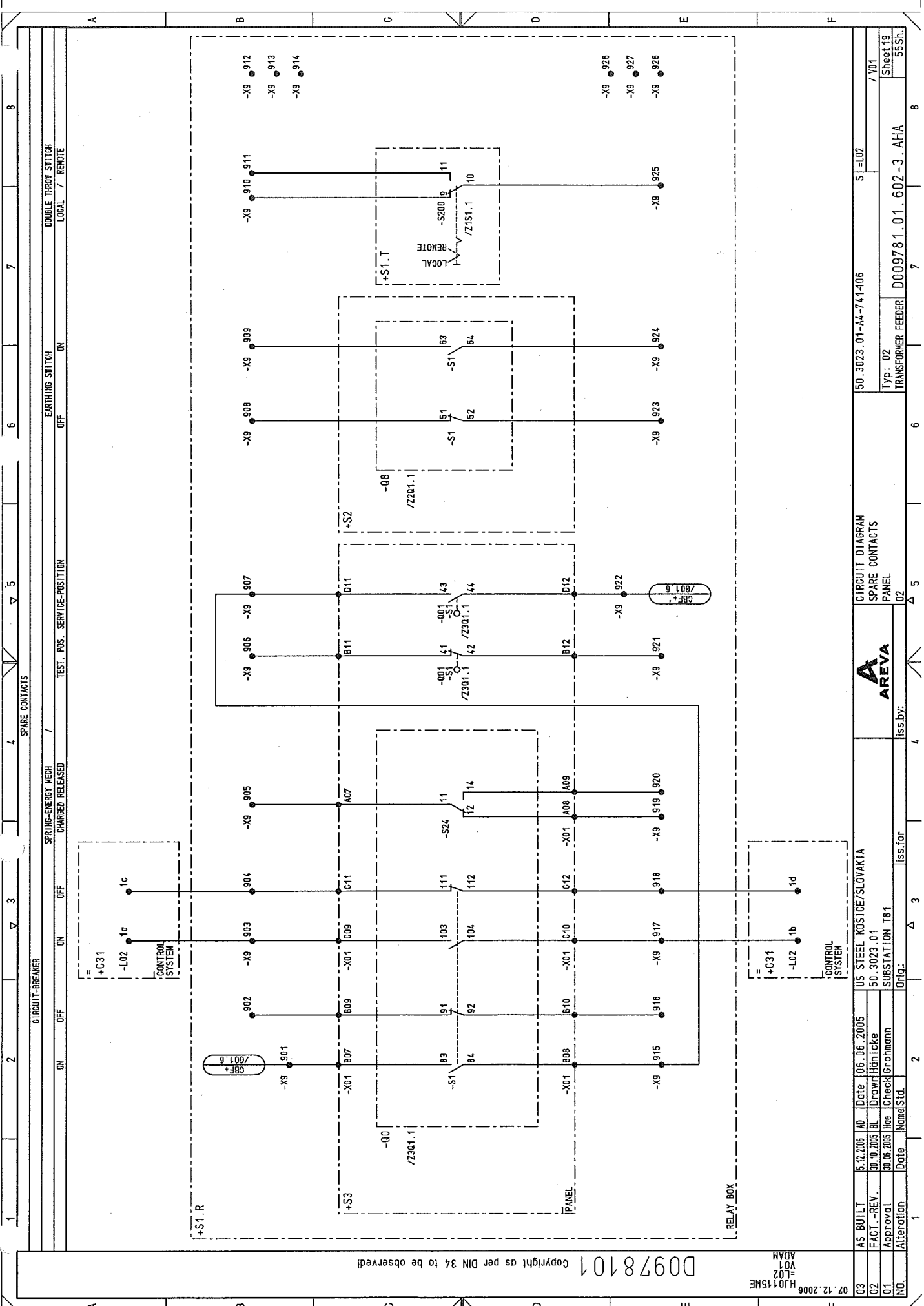
## MEASUREMENT



03	AS BUILT	5.12.2005	JAU	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM		50_3023_01-A4-7474-06	S=L02
02	FACT - REV.	30.10.2005	BL	Drawn	Hänicke	50_3023_01		VOLUME TRANSF.			
01	Approval	30.06.2005	Rae	Check	Grohmann	SUBSTATION T81		PANEL			
IND.	Alteration	Date	Name	Std.		Orig:		Iss.by:			
								02	TRANSFORMER FEEDER	D009781.01.602-3.AHA	55SL
								Type: 02			/ T01



03	AS BUILT	5.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM		50_3023-01-AA-741-106	S=L02	
02	FAST - REV.	30.10.2005	BL	Drawn	Häntcke	50_3023_01	IVIS				
01	Approval	30.06.2005	Hee	Check	Grahmann	SUBSTATION T81	PANEL		Type: 02		Sheet 18
NO.	Alteration	Date	Name	Std.	Orig.		02		TRANSFORMER FEEDER	D009781_01_602-3_AHA	55Sh.
							iss.by:				
							iss.for				



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HJ015NE  
W02  
ADAM

03	AS BUILT	15.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	150.3023.01-A4-741-406	S=102	/V01
02	FACT.-REV.	30.10.2005	BL	Drawn/Händliche	50.3023.01		SPARE CONTACTS			
01	Approval	30.06.2005	He	Check/Grohmann	SUBSTATION T81		PANEL			
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:			TRANSFORMER FEEDER	D009781.01.602-3.AHA	Sheet 19 55Sh.

1		2		3		4		5		6		7		8	
M.C.B.		GE POWER CONTROLS		Type:EP102 UC B6											
AUXILIARY SWITCH		HH		Ord.No. : 566311											
1		RATED CURRENT : 6A		CHARACTERISTIC : B											
1		Technical components per device		Ordering number											
1		AUXILIARY SWITCH		CB SH/HH-R		672570									
Application		Settings		Location		Item designation									
CONTROL		-F102		-S1.R		-F102									
PROTECTION		-F103		-S1.R		-F103									
1		M.C.B.		GE POWER CONTROLS		Type:EP102 UC C0.5									
1		Manuf.		Ord.No. : 566336											
AUXILIARY SWITCH		HH													
1		RATED CURRENT : 0.5A		CHARACTERISTIC : C											
1		Technical components per device		Ordering number											
1		AUXILIARY SWITCH		CB SH/HH-R		672570									
Application		Settings		Location		Item designation									
MOTOR DRIVE		-S1.R		-S1.R		-F101									
1		MONIT.- PROTECTION		Manuf.		Type:P130C									
1		Ord.No. : MTCOM P130-98903020-401-301													
MOTOR PROTECTION		IN=AC 1/5		UN=AC 50-130		IN=50/60HZ									
AUXILIARY VOLTAGE		: DC24-60V/DC110-250V/		: AC100-230V											
1		Technical components per device		Ordering number											
Application		Settings		Location		Item designation									
MOTOR DRIVE		-S1.T		-S1.T		-F301									
1		/601.5		/601.6		/601.7		/601.8		/601.9		/602.0		/602.1	
1		/602.2		/602.3		/602.4		/602.5		/602.6		/602.7		/602.8	
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1		/609.2		/609.3		/609.4		/609.5		/609.6		/609.7		/609.8	
1		/609.9		/610.0		/610.1		/610.2		/610.3		/610.4		/610.5	
1		/610.6		/610.7		/610.8		/610.9		/611.0		/611.1		/611.2	
1		/611.3		/611.4		/611.5		/611.6		/611.7		/611.8		/611.9	
1		/612.0		/612.1		/612.2		/612.3		/612.4		/612.5		/612.6	
1		/612.7		/612.8		/612.9		/613.0		/613.1		/613.2		/613.3	
1		/613.4		/613.5		/613.6		/613.7		/613.8		/613.9		/614.0	
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1		/618.3		/618.4		/618.5		/618.6		/618.7		/618.8		/618.9	
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1		/619.7		/619.8		/619.9		/620.0		/620.1		/620.2		/620.3	
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1		/623.9		/624.0		/624.1		/624.2		/624.3		/624.4		/624.5	
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1		/626.7		/626.8		/626.9		/627.0		/627.1		/627.2		/627.3	
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1		/633.7		/633.8		/633.9		/634.0		/634.1		/634.2		/634.3	
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1		/666.6		/666.7		/									

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003	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01-A4-741-406	S=L02	
002	FACT.-REV.	30.10.2005	BL	Drawn	Hanicke	50_3023_01			PANEL			/ ZIF10
001	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81						
000	Alteration			Date		Name/Sid.		iss.by:		Type: 02		Sheet 21
NO.						Orig.:		iss.for		TRANSFORMER FEEDER	D009781.01_602-3_AHA	55SD.

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[illegible]

1	2	3	4	5	6	7	8
1	STELLUNGSMELDER RUECKMELDER	Manuf. : messMa Ord. No. : EST-L-1746-08-330-21 TRENNSCHALTER	Type: EST-L				
Technical components per device : 220VAC/220VDC Typ : GELB Ordering number							
1	STELLUNGSMELDER RUECKMELDER	Manuf. : messMa Ord. No. : EST-L-1746-08-231-21 SCHALTWAGEN	Type: EST-L				
Technical components per device : 220VAC/220VDC Typ : GELB Ordering number							
1	STELLUNGSMELDER RUECKMELDER	Manuf. : messMa Ord. No. : EST-L-1746-08-131-21 ERDER	Type: EST-L				
Technical components per device : 220VAC/220VDC Typ : GELB Ordering number							
1	STELLUNGSMELDER RUECKMELDER	Manuf. : messMa Ord. No. : EST-L-1746-08-330-21 TRENNSCHALTER	Type: EST-L				
Technical components per device : 220VAC/220VDC Typ : GELB Ordering number							

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33	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50. 3023. 01-A4-741-106		S = L02
	FACT. -REV. .	30.10.2005	BL	Drawn	Hänlcke	50. 3023. 01						
111	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		PANEL	02	Typ: 02	Transformer FEEDER	D009781 01. 602-3. AHA
NO.	Approval	Date	Name	Std.		Orig.	Iss. by:					55Sh.





03	AS BUILT	5.2.2005	10	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01-AL-741406	S=02	7 Z151
02	FACT. - REV.	30.10.2005	BL	Drawn	Hnaticke	50_3023_01		PANEL	Typ: 02	Sheet 26		
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81		02	TRANSFORMER FEEDER	555h.		
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	Iss. by:	D009781.01.602-3.AHA				

101

												LIST OF EQUIPMENT					
03	AS BUILT	5.12.2008	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA											
01	FACT. - REV.	30.10.2005	BL	Drawn	Hönlcke	50.3023.01					50.3023.01-44-741406						
02											S=I02						
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81					PANEL	02	Type: 02	TRANSFORMER FEEDER	D009781.01.602-3.AHA	Sheet 28	55Sh.
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for					Iss. by:						

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		Betriebsmittelplan		50_3023_01-44-741-406		S =102
02	FACT.-REV.	30.10.2005	BL	Draht Hämcke	50_3023_01			PANEL		Typ: 02		/ ZEP1
01	Approval	30.06.2005	Hoe	Greck Grahmann	SUBSTATION T81			02		TRANSFORMER FEEDER		Sheet 29
NO.	Approval	Date	Name	Std.	Orig.			iss. by:		D009781.01.602-3_AHA		55Sh.

1		2		3		4		5		6		7		8	
SUBJECT		DESCRIPTION, DESIGN, TECHNICAL DATA		SETTINGS		MANUFACTURER, TYPE, ORDERING DATA		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM		WITH REFERENCES TO DETAILS	
TITTY		APPLICATION		MOUNTING		APPA. DESIG.		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM		SHEET NO.		CIRCUIT NO.	
1		EARTHING SWITCH		Manuf. : ALSTOM		Type: KGE 80/24-2									
		Technical components per device		Type		Ordering number									
		Application		Settings		Location		Item designation							
		EARTHING SWITCH				+S2		-08							

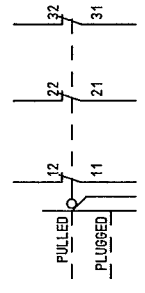
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1	2	3	4	5	6	7	8	
1	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.		APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)			REMARK
1	AUXILIARY SWITCH PLUG PULLED		Manuf.: ALSTOM Ord.No. : Type: Technical components per device Type Ordering number					
Application PLUG PULLED		Settings	Location +S2	Item designation -S7				

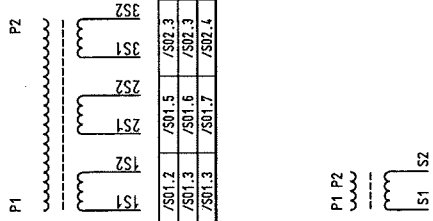
03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		150.3023.01-A4-741-406	S	=L02
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL				/ Z2S1
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81		02				Sheet 31
NO.	Alteration	Date	Name	Std.	Iss.	for	Iss.	by:	D009781.01.602-3.AHA		Typ: 02	55Sh.

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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-A4-741-406	S=L02	/ZT1
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01	PANEL			
01	Approval	30.06.2005	Ree	Checked	Grohmann	SUBSTATION T81	02	Typ: 02	TRANSFORMER FEEDER	D009781.01.602-3.AHA
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:			Sheet 32
1										55Sh.

1	2	3	4	5	6	7	8
SHUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
3	CURR. TRANSF. 250/1/1/1A	MANUF.: AEG PO NO.:	TYPE CT12				
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CURR. TRANSF. L1	+S2	+S2	-T1L1	/S01.2 /S01.5 /S02.3		
	CURR. TRANSF. L2	+S2	+S2	-T1L2	/S01.3 /S01.6 /S02.3		
	CURR. TRANSF. L3	+S2	+S2	-T1L3	/S01.3 /S01.7 /S02.4		
1	CURR. TRANSF. CABLE-TYPE CT 60/1A	MANUF.: AEG PO NO.:	TYPE RKT 250/160				
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CABLE-TYPE CT		+S2	-T91	/S02.6		





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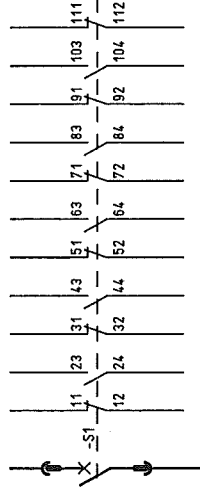
03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-A4-741-406	S	=L02	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönigke	50.3023.01	PANEL				7301
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81	02	TRANSFORMER FEEDER	D009781.01.602-3.AHA		Sheet 33
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:					55 Sh.

1	2	3	4	5	6	7	8
SIUCK-TITTY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIGN.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	CIRCUIT-BREAKER	MANUF.: ALSTOM PO NO.:	TYPE ECA 12-40-12-21				
REFERENCES FOR GROUP REPRES. IN CIRCUIT DIAGRAM							
REFERENCES TO SEP. DOCUMENTS WITH DETAILS OF REPRES.							
REFERENCES FOR REPRES. OF APPLIANCE CONNECTIONS							
TECHNICAL COMPONENTS							
TYP : ORDER NO							
APPLICATION							
CIRCUIT-BREAKER							
MOUNTING							
BTM IDENTIFIER							
+S3							
-00							
TYP:							
AUXILIARY SWITCH							
HERST.: ALSTOM							
BEST. NR.:							
#8_POL							
TECHNISCHE KOMPONENTEN							
TYP							
BESTELLNUMMER							
VERWENDUNGSZEICH							
AUXILIARY SWITCH							
EINTELLDATEN							
EINBAUORT							
+S3							
BTM-KENNZEICHEN							
-001							
TRENNST.							
BETRIEBSST.							
11 12 21 22 31 32 41 42 23 24 33 34 43 44							
/001.3 /001.3 /001.3 /001.3 /001.3 /001.3 /001.3 /001.3							
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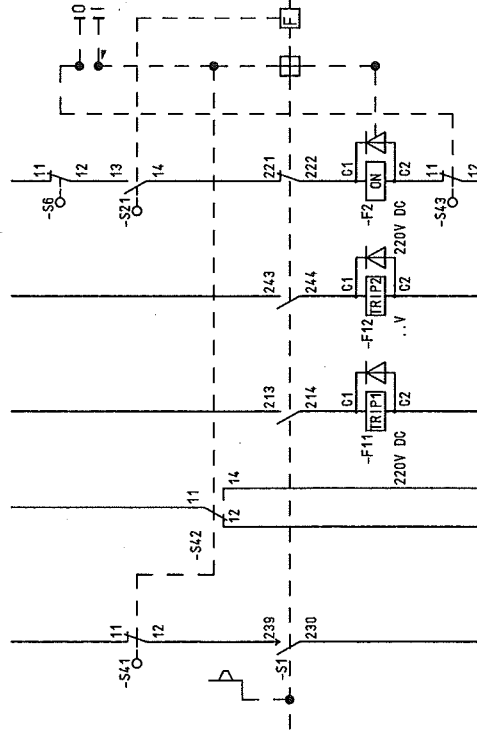
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-S1 AUXILIARY SWITCH

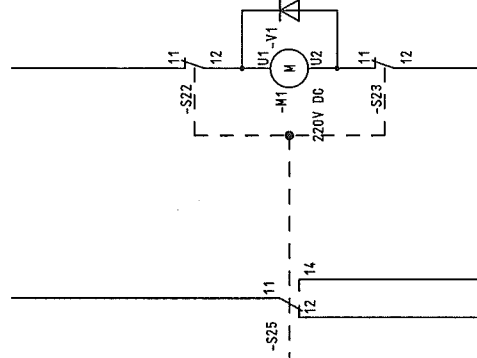


CIRCUIT-BREAKER

- S41 AUXILIARY CONTACT ON  
PUSH-BUTTON ON/OFF
- S42 AUXILIARY CONTACT ON  
PUSH-BUTTON ON/OFF
- F11 AUXILIARY TRIP RELEASE
- F12 AUXILIARY TRIP RELEASE
- F2 AUXILIARY CLOSING RELEASE
- S43 AUXILIARY CONTACT ON  
PUSH-BUTTON OFF
- S43 AUX. CONTACT, ENERGY STORE  
CONTROL
- AUXILIARY CONTACT  
TRUCK INTERMEDIATE POSITION



- AUXILIARY CONTACTS  
ENERGY STORE MESSAGE
- AUXIL. CONTACTS  
ENERGY STORE MESSAGE
- MOTORIZED ENERGY STORE



43

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07.12.2006

03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	TERMINAL DIAGRAM	150.3023.01-A4-741-406	V	=I02	/ K01
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01					+S1.R	
01	Approval	30.06.2005	Re	Checked	Grohmann	SUBSTATION T81						Sheet 35
NO.	Alteration	Date	Name	Sid.	Orig.	Iss.for	Iss.by:	PANEL 02	TRANSFORMER FEEDER	D009781.01.602-3.AHA		55 Sh.

1		2		3		4		5		6		7		8	
RÜCK-REF.		CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES -ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		COLOR	
												H07V-K 1.5MM2 SW		STANDARD: UKSN	
												H05V-K 1.0MM2 SW		POS.: 0	
												H07V-K 2.5MM2 SW		POS.: 2	



[illegible]

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	
RÜCK-REF.		NO		CORES/ LINE		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG. INTERN	
		1 2 3 4 5 6 7 8 9 10 11 12													
/R01.2											102L+	401		-X3	305
/R01.2											102L+	402		-K100	A1
/R01.4											102L+	403		+S1.T -S0A	21
/R01.7											102L+	404			
/R01.2											102L-	405		-X3	309
/R01.2											102L-	406		-K100	A2
/R01.4											102L-	407		+S1.T -F301	16
/R01.7											102L-	408		-K451	A2
/R01.3												409		+S1.T -S0E	22
/R01.3												410		-X01	A10
/R01.3												411		-X01	A11
/R01.4												412		+S1.T -F301	15
/R01.4												413		+S1.T -F301	17
/R01.5												414		+S1.T -S0E	44
/R01.5												415			
/R01.5												416		-F101	22
/R01.5												417			
/R01.5												418		-F101	21
/R01.7												419		-K451	A1
/R01.7												421		-K451	33
/R01.7												422		-K451	34
/R01.8												423		-K451	43
/R01.8												424		-K451	44
/R01.8												425			
/R01.8												426			
/R01.8												427			
/R01.8												428			

Copyright as per DIN 34 to be observed!

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07.12.2006

03 AS BUILT 5.12.2006 AD Date 06.06.2005 US STEEL KOSICE/SLOVAKIA  
 02 FACT -REV. 30.10.2005 BL Drawn Hénicke 50.3023.01  
 01 Approval 30.06.2005 Hae Check/Grohmann SUBSTATION T81  
 NO. Alteration Date Name/Std. Orig.: Iss.for Iss.by:

AREVA  
 TERMINAL DIAGRAM  
 PANEL  
 02  
 50.3023.01-A4-741406  
 Typ: 02  
 TRANSFORMER FEEDER  
 D09781.01.602-3.AHA  
 Sheet 38  
 55Sh.



03	AS BUILT	5.12.2005	10	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01-44-741406	V=02 +S1.R	Sheet 40 55th / K31
02	FACT -REV.	30.10.2005	BL	Drawn	Hönicke	50_3023_01					
01	Approval	30.06.2005	Hae	Check	Grahmann	SUBSTATION T81					
NO	Alteration	Date	Name	Sid	iss for	iss by:	PANEL 02 TRANSFORMER FEEDER 0009781 01_602-3_AHA				



03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	TERMINAL DIAGRAM	50.3023.01-A4-741-06	V	-L02	/K60
02	FACT -REV.	30.10.2005	BL	Drawn	Hönigke	50.3023.01				+S1.R	
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81					Sheet L1
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	TRANSFORMER FEEDER	D009781.01.602-3.AHA		55Sh.

1		2		3		4		5		6		7		8	
NO		CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL	
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03	AS BUILT	5.12.2006	AD	06.06.2005	US STEEL KOSICE/SLOVAKIA
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02	FACT. -REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.		Orig.:
						Iss.

for	iss.by:	PANEL 02
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Typ: 02	TRANSFORMER FEEDER	D00
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9781.01.602-3. AHA	+S1.R	/ K80
Sheet 42		
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03	AS BUILT	30.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01-A4-741-106	V=I02	/ X30
02	FAGT - REV.	30.10.2005	BL	Drawn	Hanticke	50_3023_01					
01	Approval	30.06.2005	Hoe	Checked	Gröhlmann	SUBSTANTIATION T81					
NO.	Alteration	Date	Name	Std.	Iss.	for	iss.by:	02	TRANSFORMER FEEDER	D009781.01.602-3.AHA	55Sh.

003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM			50_3023.01-44-741-06			V=L02	
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönlücke	50_3023.01		PANEL			Type: 02			Sheet 46	
01	Approval	30.06.2005	Hla	Check	Grohmann	SUBSTATION T81		02			TRANSFORMER FEEDER			555h.	
NO.	Alteration	Date	Name/Sid.	Iss for	Iss by:	Orig:				D009781.01.602-3.AHA					

## CROSS CONNECTION

REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
601	DC220V.L+ 2 2.5MM2	H07V-K SW	12 -F101	1 -F102	1 -F103	1			
601	DC220V.L- 2 2.5MM2	H07V-K SW	14 -F101	3 -F102	3 -F103	3			
M01	102L+ 1 1.5MM2	H07V-K SW	104 -U401	13 -U402	13				
M01	102L- 1 1.5MM2	H07V-K SW	108 -U401	14 -U402	14				
M01	1 1.5MM2	H07V-K SW	117 -K0A	14 -K200	14				
M01	1 1.5MM2	H07V-K SW	118 -K0A	13 -K0E	13				
M01	1 1.5MM2	H07V-K SW	119 -K0E	14 -K200	13 -K200	21			
001	102L- 1 1.5MM2	H07V-K SW	308 -K301	A2 -K302	A2				
002	1 1.5MM2	H07V-K SW	816 -K0A	A2 -K0E	A2				
003	1 1.5MM2	H07V-K SW	808 -F101	12 -F102	12 -F103	12			
003	1 1.5MM2	H07V-K SW	825 -F101	11 -F102	11 -F103	11			
R01	1 1.5MM2	H07V-K SW	-K0A	22 -K0E	21				
R01	102L+ 1 1.5MM2	H07V-K SW	403 -K302	21 -K451	13				
R01	1 1.5MM2	H07V-K SW	416 -F101	22 -F102	22 -F103	22			
R01	1 1.5MM2	H07V-K SW	418 -F101	21 -F102	21 -F103	21			
S01	2 2.5MM2	H07V-K SW	-U401	3 -U402	1				
S01	2 2.5MM2	H07V-K SW	-U401	6 -U402	4				
S01	2 2.5MM2	H07V-K SW	-U401	9 -U402	7				
S01	2 2.5MM2	H07V-K SW	511 -U402	3 -U402	6 -U402	9			
T01	1 1.5MM2	H07V-K SW	602 -U401	2 -U402	2				

D0978101 Copyright as per DIN 34 to be observed!

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03	AS BUILT	5.12.2006	AD	Date	10.06.2005	US STEEL K0510E/SLOVAKIA	CROSS CONNECT. LIST	150.3023.01-A4-744-406	V -L02	/ B10
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	RELAY BOX		+ST.R	
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81	PANEL			Sheet 47
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	TRANSFORMER FEEDER	D009781.01.602-3.AHA	55Sh.

## CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed!

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## CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed!

00978101

HJ0115NE  
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03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSTICE/SLOVAKIA		CROSS CONNECT. LIST	50_3023.01-A4-741406	V =L02	/ Q15
02	FACT - REV.	30.10.2005	BL	Drawn	Hänicke	50_3023.01					
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81		PANEL			
00	Alteration	Date	Name	Sid.		Orig:	iss. for	02	Type: 02 TRANSFORMER FEEDER	D009781.01_602-3_AHA	Sheet 50 55sh.

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

+S1.R -X01  
 CABLE MATERIAL H05V-K 1.0mm2 SW

A		B		C		D		E		F	
+	+	+	+	+	+	+	+	+	+	+	+
1	-X1 /L01.2 H05V-K 1.0MM2 SW	101	-X8 /D02.4 H05V-K 1.0MM2 SW	818	-X1 /N01.6	100	-X3 /D01.3 H05V-K 1.0MM2 SW	311	1		
2	-X1 /L01.2 H05V-K 1.0MM2 SW	102	-X8 /D05.2 H05V-K 1.0MM2 SW	862	-X1 /N01.6	200	-X8 /D02.5 H05V-K 1.0MM2 SW	804	2		
3	-X1 /L01.6 H05V-K 1.0MM2 SW	116	-X8 /D05.2 H05V-K 1.0MM2 SW	869		303	-X8 /D02.5 H05V-K 1.0MM2 SW	819	3		
4	-X1 /N01.6 H05V-K 1.0MM2 SW	110	-X8 /D05.2 H05V-K 1.0MM2 SW	870		404	-X8 /D02.5 H05V-K 1.0MM2 SW	821	4		
5	-X1 /N01.7 H05V-K 1.0MM2 SW	121	-X0 /D01.3 H05V-K 1.0MM2 SW	5	-X8 /D05.4 H05V-K 1.0MM2 SW	505			5		
6	-X1 /N01.7 H05V-K 1.0MM2 SW	123	-X0 /D01.3 H05V-K 1.0MM2 SW	7	-X8 /D05.4 H05V-K 1.0MM2 SW	606			6		
7	-X9 /V01.4 H05V-K 1.0MM2 SW	905	-X9 /V01.2 H05V-K 1.0MM2 SW	901		707	-X8 /D05.4 H05V-K 1.0MM2 SW	866	7		
8	-X9 /V01.3 H05V-K 1.0MM2 SW	919	-X9 /V01.2 H05V-K 1.0MM2 SW	915		808	-X8 /D05.4 H05V-K 1.0MM2 SW	874	8		
9	-X9 /V01.4 H05V-K 1.0MM2 SW	920	-X9 /V01.2 H05V-K 1.0MM2 SW	902	-X9 /V01.3 H05V-K 1.0MM2 SW	909			9		
10	-X4 /R01.3 H05V-K 1.0MM2 SW	410	-X9 /V01.2 H05V-K 1.0MM2 SW	916	-X9 /V01.3 H05V-K 1.0MM2 SW	1010			10		
11	-X4 /R01.3 H05V-K 1.0MM2 SW	411	-X9 /V01.4 H05V-K 1.0MM2 SW	906	-X9 /V01.3 H05V-K 1.0MM2 SW	1111	-X9 /V01.5 H05V-K 1.0MM2 SW	907	11		
12	-X3 /D01.2 H05V-K 1.0MM2 SW	302	-X9 /V01.4 H05V-K 1.0MM2 SW	921	-X9 /V01.3 H05V-K 1.0MM2 SW	1212	-X9 /V01.5 H05V-K 1.0MM2 SW	922	12		
13	-X3 /D01.2 H05V-K 1.0MM2 SW	310	-X8 /D05.3 H05V-K 1.0MM2 SW	864		1313			13		
14	-X3 /D01.2 H05V-K 1.0MM2 SW	311	-X8 /D05.3 H05V-K 1.0MM2 SW	872		1414			14		
15	-X8 /D02.3 H05V-K 1.0MM2 SW	803	-X8 /D05.3 H05V-K 1.0MM2 SW	863	-X3 /D01.3 H05V-K 1.0MM2 SW	1515			15		
16	-X8 /D02.3 H05V-K 1.0MM2 SW	817	-X8 /D05.3 H05V-K 1.0MM2 SW	871	-X3 /D01.3 H05V-K 1.0MM2 SW	1616			16		
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03	AS BUILT	15.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA	AREVA	PLUG DIAGRAM	50.3023.01-A4-741-406	V=L02	/S01
02	FACT.-REV.	30.10.2005	BL	Drawn	Hünticke	50.3023.01		CIRCUIT-BREAKER		+S1.R	
01	Approval	30.06.2005	He	Checked	Grohmann	SUBSTATION T81		PANEL	Typ: 02		Sheet 49
NO.	Alteration	Date	Named	Std	Orig.	Iss.for	Iss.by:		TRANSFORMER FEEDER	D009781.01.602-3.AHA	55Sh.

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07.12.2006  
 HJ015NE  
 L02+S1  
 S01  
 ADAM

## CROSS CONNECTION

[illegible]

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07.12.2006 HJ0115ME  
=L02+S2 Q20  
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03
02
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NO.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	0 1.0MM2	H05V-K SW	-X01	B05 -S1	-00 71				
D01	0 1.0MM2	H05V-K SW	-X01	B06 -S1	-00 72				
L01	0 1.0MM2	H05V-K SW	-X01	A01 -S22	-00 11				
L01	0 1.0MM2	H05V-K SW	-X01	A02 -S23	-00 12				
M01	0 1.0MM2	H05V-K SW	-F11	C1 -S1	-00 214				
M01	0 1.0MM2	H05V-K SW	-F2	C1 -S1	-00 222				
M01	0 1.0MM2	H05V-K SW	-F2	C2 -S43	-00 11				
M01	0 1.0MM2	H05V-K SW	-S1	Z21 -S21	-00 14				
M01	0 1.0MM2	H05V-K SW	-S21	13 -S6	-00 12				
M01	0 1.0MM2	H05V-K SW	-X01	A03 -S1	-00 213				
M01	0 1.0MM2	H05V-K SW	-X01	A04 -F11	-00 C2				
M01	0 1.0MM2	H05V-K SW	-X01	A05 -S6	-00 11				
M01	0 1.0MM2	H05V-K SW	-X01	A06 -S43	-00 12				
001	0 1.0MM2	H05V-K SW	-X01	A12 -S1	-00 11 -S1	-00 23			
001	0 1.0MM2	H05V-K SW	-X01	A13 -S1	-00 12				
001	0 1.0MM2	H05V-K SW	-X01	A14 -S1	-00 24				
001	0 1.0MM2	H05V-K SW	-X01	C15 -S1	-001 11 -S1	-001 13			
001	0 1.0MM2	H05V-K SW	-X01	C16 -S1	-001 12				
001	0 1.0MM2	H05V-K SW	-X01	D01 -S1	-001 14				
002	0 1.0MM2	H05V-K SW	-X01	A15 -S1	-00 31 -S1	-00 43			
07.12.2008 H0145NE 0302+53 ADAM				GROSS CONNECT - LIST SWITCHING TRUCK PANEL 02			50.3023.01-A4-741-406 V =L02 +S3		
03	AS BUILT	5.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA			
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönitzke	50.3023.01			
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81			
NO.	Alteration	Date	Name	Std.	Iss.	for	Iss.	by:	
1									
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				D0978101			55Sh.		



Typ: 02  
TRANSFORMER FEEDER

50.3023.01-A4-741-406  
V =L02  
+S3

50.3023.01

US STEEL KOSICE/SLOVAKIA

50.3023.01

Drawn Hönitzke

30.10.2005 BL

5.12.2005 AD

AS BUILT

Approval

30.06.2005 Hoe

Check

Grohmann

30.10.2005 BL

Drawn

Hönitzke

50.3023.01

US STEEL KOSICE/SLOVAKIA

50.3023.01

1	2	3	4	5	6	7	8
CROSS CONNECTION							
POTENTIAL ITEM DR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5
002	H05Y-K SW	-X01	A16 -S1	-00 32			
002	H05Y-K SW	-X01	B01 -S1	-00 44			
002	H05Y-K SW	-X01	D02 -S1	-001 21 -S1			
002	H05Y-K SW	-X01	D03 -S1	-001 22			
002	H05Y-K SW	-X01	D04 -S1	-001 24			
005	H05Y-K SW	-X01	B02 -S1	-00 51 -S1	-00 63		
005	H05Y-K SW	-X01	B03 -S1	-00 52			
005	H05Y-K SW	-X01	B04 -S1	-00 64			
005	H05Y-K SW	-X01	B13 -S1/2	-00 11			
005	H05Y-K SW	-X01	B14 -S1/2	-00 14			
005	H05Y-K SW	-X01	B15 -S25	-00 11			
005	H05Y-K SW	-X01	B16 -S25	-00 14			
005	H05Y-K SW	-X01	C05 -S1	-001 31			
005	H05Y-K SW	-X01	C06 -S1	-001 32			
005	H05Y-K SW	-X01	D07 -S1	-001 33			
005	H05Y-K SW	-X01	D08 -S1	-001 34			
R01	H05Y-K SW	-S1	-00 239 -S1	-00 12			
R01	H05Y-K SW	-X01	A10 -S1	-00 11			
R01	H05Y-K SW	-X01	A11 -S1	-00 230			
V01	H05Y-K SW	-X01	A07 -S24	-00 11			
GROSS CONNECT. LIST SWITCHING TRUCK PANEL				150.3023.01-A4-741-06 V = 02 +S3			
AREVA				Typ: 02 TRANSFORMER FEEDER			
Iss.by:				D009781.01.602-3.AHA			
Iss.for				Sheet 153			
Orig:				55Sh.			

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03	AS BUILT	15.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönlücke	50.3023.01
01	Approval	30.06.2005	Hie	Check	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for

# CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
V01	0 1.0MM2	H05V-K SW	-X01	A08 -S24	-00 12				
V01	0 1.0MM2	H05V-K SW	-X01	A09 -S24	-00 14				
V01	0 1.0MM2	H05V-K SW	-X01	B07 -S1	-00 83				
V01	0 1.0MM2	H05V-K SW	-X01	B08 -S1	-00 84				
V01	0 1.0MM2	H05V-K SW	-X01	B09 -S1	-00 91				
V01	0 1.0MM2	H05V-K SW	-X01	B10 -S1	-00 92				
V01	0 1.0MM2	H05V-K SW	-X01	B11 -S1	-001 41				
V01	0 1.0MM2	H05V-K SW	-X01	B12 -S1	-001 42				
V01	0 1.0MM2	H05V-K SW	-X01	C09 -S1	-00 103				
V01	0 1.0MM2	H05V-K SW	-X01	C10 -S1	-00 104				
V01	0 1.0MM2	H05V-K SW	-X01	C11 -S1	-00 111				
V01	0 1.0MM2	H05V-K SW	-X01	C12 -S1	-00 112				
V01	0 1.0MM2	H05V-K SW	-X01	D11 -S1	-001 43				
V01	0 1.0MM2	H05V-K SW	-X01	D12 -S1	-001 44				

03	AS BUILT	15.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	AREVA	GROSS CONNECT - LIST	50.3023.01-A4-741-406	V	-L02	/032
02	FACT - REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01		SWITCHING TRUCK			-S3	
01	Approval	30.06.2005	Hr	Checked	Grohmann	SUBSTATION T81		PANEL				Sheet 54
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:		02	TRANSFORMER FEEDER	D009781.01.602-3.AHA		55Sh.

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D00978101

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

+S3 -X01  
CABLE MATERIAL H05V-K 1.0mm2 SW

A				B				C				D				+
1	-00	-S22	11	-00	-S1	44	40	-00	-S1	243	D01	-001	-S1	14	1	+
2	-00	-S23	12	-00	-S1	51	40	-00	-F12	02	D02	-001	-S1	21	2	+
3	-00	-S1	213	-00	-S1	52	40	-00	-S1	003	D03	-001	-S1	22	3	+
4	-00	-F11	02	-00	-S1	64	40	-00	-S1	004	D04	-001	-S1	24	4	+
5	-00	-S6	11	-00	-S1	71	40	-001	-S1	31	D05				5	+
6	-00	-S43	12	-00	-S1	72	40	-001	-S1	32	D06				6	+
7	-00	-S24	11	-00	-S1	83	40	-00	-S1		D07	-001	-S1	33	7	+
8	-00	-S24	12	-00	-S1	84	40				D08	-001	-S1	34	8	+
9	-00	-S24	14	-00	-S1	91	40	-00	-S1	103	D09				9	+
10	-00	-S41	11	-00	-S1	92	40	-00	-S1	104	D10				10	+
11	-00	-S1	230	-001	-S1	41	40	-00	-S1	111	D11	-001	-S1	43	11	+
12	-00	-S1	11	-001	-S1	42	40	-00	-S1	112	D12	-001	-S1	44	12	+
13	-00	-S1	12	-00	-S42	11	40	-00	-S1		D13				13	+
14	-00	-S1	24	-00	-S42	14	40	-00	-S42		D14				14	+
15	-00	-S1	31	-00	-S25	11	40	-001	-S1	11	D15				15	+
16	-00	-S1	32	-00	-S25	14	40	-001	-S1	12	D16				16	+
+															+	

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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	150.3023.01-A4-7+1406	V	±0.02	/ S01
02	FACT. -REV.	30.10.2005	BL	Drawn	Hontak	50.3023.01	CIRCUIT-BREAKER			+S3	/ S01
01	Approval	30.06.2005	Ree	Check	Grohmann	SUBSTATION T81	PANEL	TRANSFORMER FEEDER	D009781.01.602-3-AHA		Sheet55
NO.	Alteration	Date	Name	Sid.	2	Iss. for	Iss. by:				55Sh.