

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T81

MOTOR FEEDER

CIRCUIT DIAGRAM

A = L03

/ A01

07.12.2006 HJ0115ME  
=L03  
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

D009781.01. 603-3.AHA

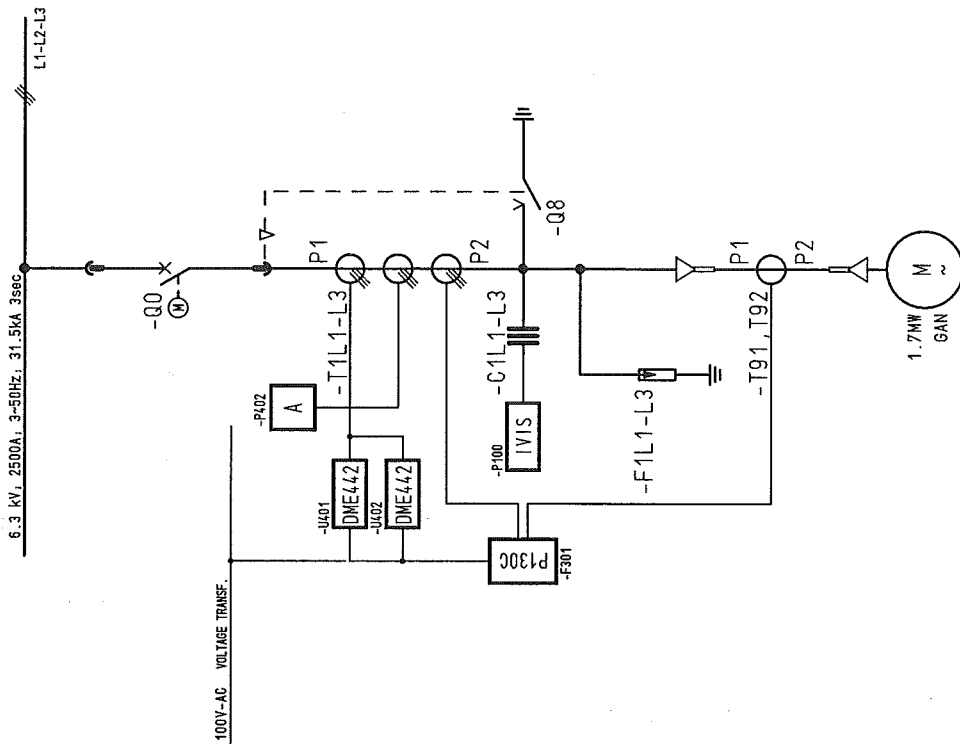
50.3023.01-A4-741-107  
COVER SHEET  
PANEL  
03

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

INSTR., AND CONTROL					
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS	
CONTROL	-08 -00		-00		
STATUS SIGNAL	-00, -08		-00, -08		
MEASUREMENT	1 (L2)		1 (L2), U(L1-L2) P (P2), Q(Q2)		
PROTECTION	MICON P130C				
ANSI	27, 32, 46, 48, 49, 50P, 50N, 50BF, 51, 51N, 59, 59N, 66, 67, 67N, 79, 810				
ANSI	810, 86				
METERING					

[illegible]

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYPE	RATIO	WDE	REMARKS
-T1L1	AEG	CT12	250/1/1/1A	C1: c1. 0.2FS5 15VA	
-T1L2	AEG	CT12	250/1/1/1A	C2: c1. 1FS5 15VA	
-T1L3	AEG	CT12	250/1/1/1A	C3: c1. 10P10 10VA	
-T91.T92	AEG	RKT 250/160 Gr. 3	60/1A	C1: c1. 3FS5 1.2VA	
-F1L1	ALSTOM	HE09			øUABL
-F1L2	ALSTOM	HE09			
-F1L3	ALSTOM	HE09			
-C1L1	AREVA	IVIS			CAP. TAPPING
-C1L2	AREVA	IVIS			
-C1L3	AREVA	IVIS			



MOTOR FEEDER

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KÖSTÖZ/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM		50_3023_01-AA-747-107	A = L03
02	FACT. - REV.	30.10.2005	BL	Drawn	Häntke	50_3023_01					
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81					
00	Alteration	Date	Name	Std.	Orig.	Iss for	Iss by:	PANEL		Typ: 03	Sheet 2
								03		MOTOR FEEDER	56Sh.
										D009781.01.603-3_AHA	

D0978101 Copyright as per DIN 34 to be observed!

07.12.2006

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.								
A	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	A =L03	A01	1	COVER SHEET	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	A =L03	A02	2	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	A =L03	B01	3	Inhaltsverzeichnis	03						
B	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	A =L03	B02	4	Inhaltsverzeichnis	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	D01	5	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	B01	6	CIRCUIT DIAGRAM	03						
C	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	L01	7	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	M01	8	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	Q01	9	CIRCUIT DIAGRAM	03						
D	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	Q02	10	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	Q03	11	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	Q04	12	CIRCUIT DIAGRAM	03						
E	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	Q05	13	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	R01	14	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	S01	15	CIRCUIT DIAGRAM	03						
F	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	S02	16	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	T01	17	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	T02	18	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	V01	19	CIRCUIT DIAGRAM	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIF1	20	LIST OF EQUIPMENT	03						
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	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIF11	22	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIF2	23	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIH1	24	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIK1	25	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIP1	26	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIS1	27	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZIU1	28	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZZC1	29	LIST OF EQUIPMENT	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZZP1	30	Betriebsmittelpfan	03						
	50.3023.01-A4-741-	D009781.01.603-3.AHA	01	02	03	S =L03	ZZQ1	31	LIST OF EQUIPMENT	03						
AS BUILT		5.12.2005	AD	Date	05.06.2005	US STEEL KOSTICE/SLOVAKIA		Inhaltsverzeichnis		50.3023.01-A4-741-407		A =L03		/ B01		
FACT.-REV.		30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL						Sheet 3		
Approval		30.10.2005	Hae	Check	Grohmann	SUBSTATION T81		03						Sheet 3		
Alteration		Date	Name	Sid.	Iss.	for	Iss.							56Sh.		
														D009781.01.603-3.AHA		
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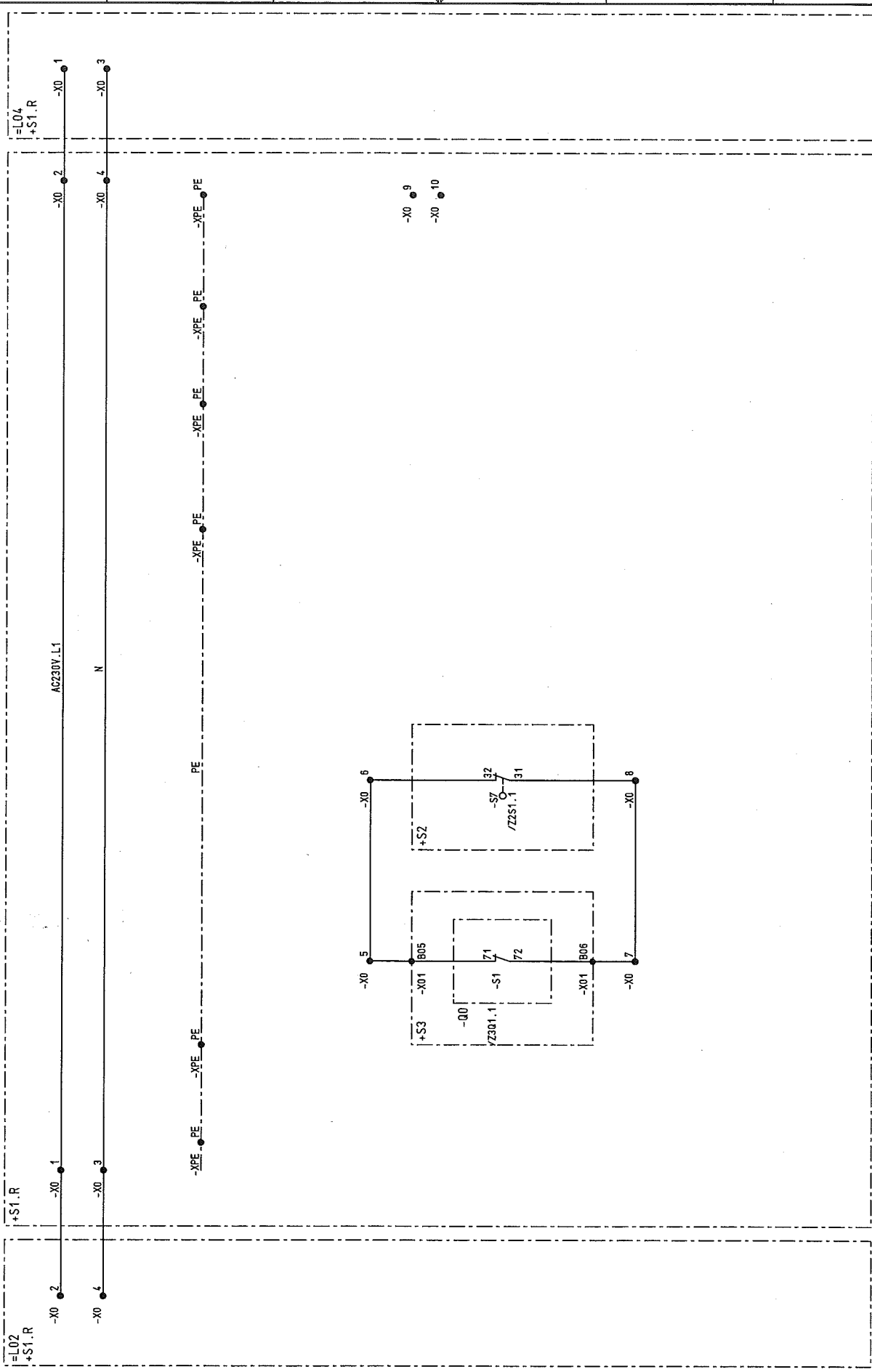
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50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	S =L03	ZZS1	32	LIST OF EQUIPMENT PANEL		03	
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50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	S =L03	Z3Q2	35	LIST OF EQUIPMENT PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K01	36	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K10	37	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K30	38	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K40	39	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K50	40	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K51	41	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K60	42	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K80	43	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K81	44	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K82	45	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	K90	46	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	KPE	47	TERMINAL DIAGRAM PANEL		03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	Q10	48	GROSS CONNECT. LIST PANEL		RELAY BOX 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	Q11	49	GROSS CONNECT. LIST PANEL		RELAY BOX 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.R	S01	50	PLUG DIAGRAM PANEL		CIRCUIT-BREAKER 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S1.T	Q15	51	GROSS CONNECT. LIST PANEL		RELAY BOX 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S2	Q20	52	GROSS CONNECT. LIST PANEL		PANEL 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S3	Q30	53	GROSS CONNECT. LIST PANEL		SWITCHING TRUCK 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S3	Q31	54	GROSS CONNECT. LIST PANEL		SWITCHING TRUCK 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S3	Q32	55	GROSS CONNECT. LIST PANEL		SWITCHING TRUCK 03	
50.3023.01-A4-741- 107		D009781.01.603-3.AHA		01	02	03	V =L03 +S3	S01	56	PLUG DIAGRAM PANEL		CIRCUIT-BREAKER 03	

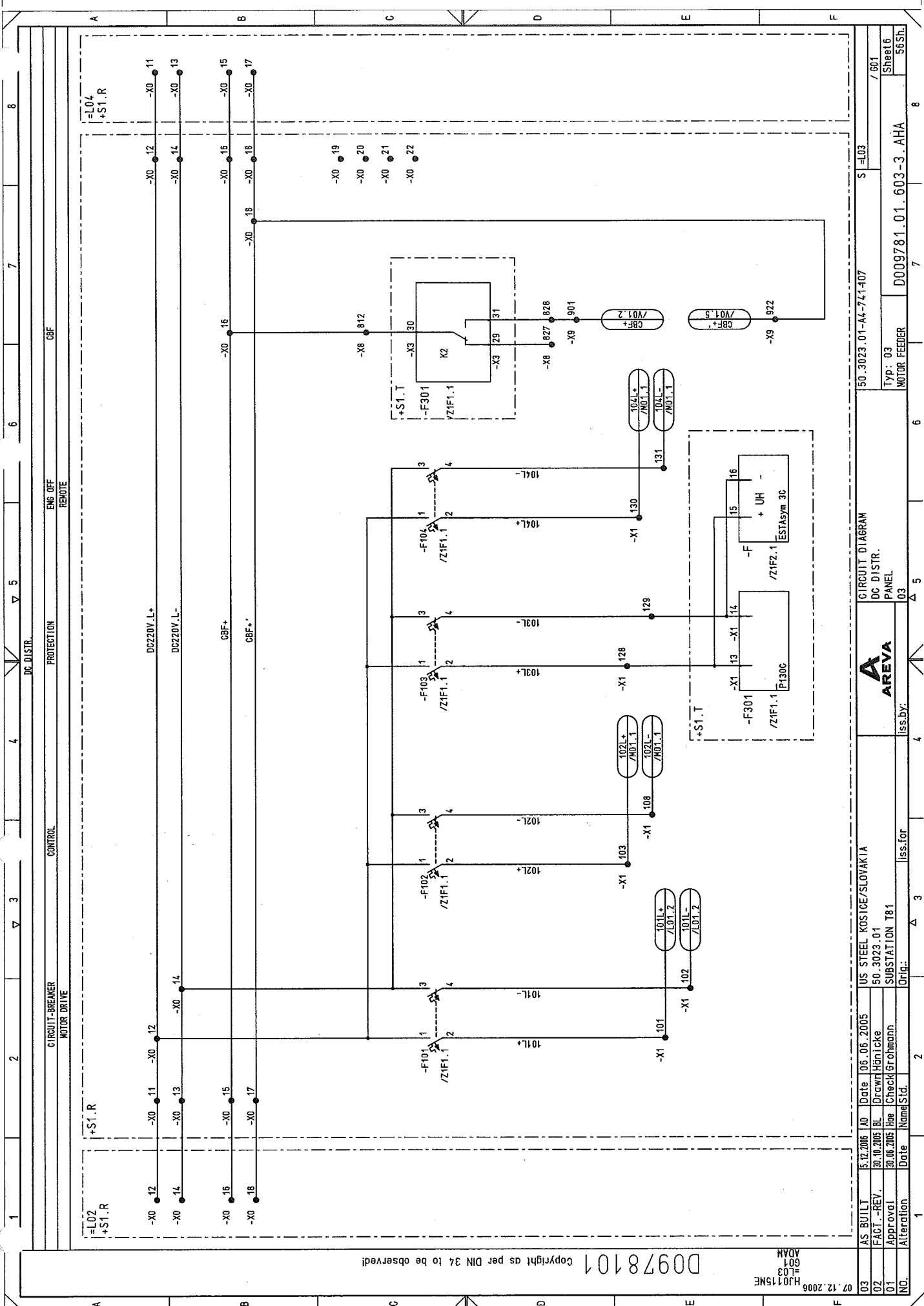
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HJ015ME  
L03  
DO1  
ADAM

03	AS BUILT	15.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-744-407	S=L03	/ DO1
02	FACT.-REV.	10.10.2005	BL	Date	10.10.2005	Drawt Hanićke	AC-DISTRIBUTION			
01	Approval	10.06.2005	Hoe	Date	10.06.2005	Check Grohmann	PANEL			
NO.	Alteration			Iss.fat		Iss.by:	03	MOTOR FEEDER	D009781.01.603-3.AHA	Sheet 5 56Sh.



1	2	3	4	5	6	7	8
AC-DISTRIBUTION							
C.B. OPEN							
CIRCUIT BREAKER WITHDRAWN OR NOT IN SERVICE							



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07.12.2006  
HJ015ME  
601  
ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	FACT.-REV.	30.10.2005	BL	Drawn	Hánické	50.3023.01
01	Approval	30.06.2005	HOE	Check	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Orlg.	

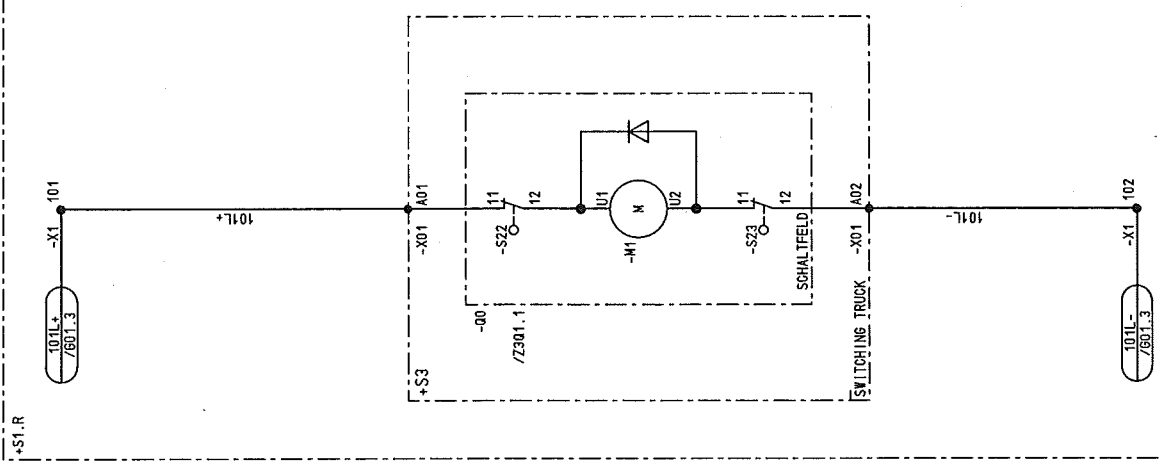
Iss. for	Iss. by:	Panel	DC DISTR.	CIRCUIT DIAGRAM
03	03	03		

Typ: 03	MOTOR FEEDER	D009781.01.603-3.AHA	Sheet6	56Sh.
50.3023.01-44-741-407	S=L03			

/ 601

D0978101 Copyright as per DIN 34 to be observed!

07.12.2006  
HJ0115ME  
LO1  
ADAM



03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-407	S=L03	/L01
02	FACT.-REV.	30.10.2005	BL	Drawn	Härticke	50.3023.01	CIRCUIT-BREAKER			
01	Approval	30.06.2005	Hie	Check	Grohmann	SUBSTATION T81	PANEL			
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	MOTOR FEEDER	D009781.01.603-3.AHA	Sheet 7 56Sh.



MOTOR DRIVE

CIRCUIT-BREAKER  
MOTOR DRIVE



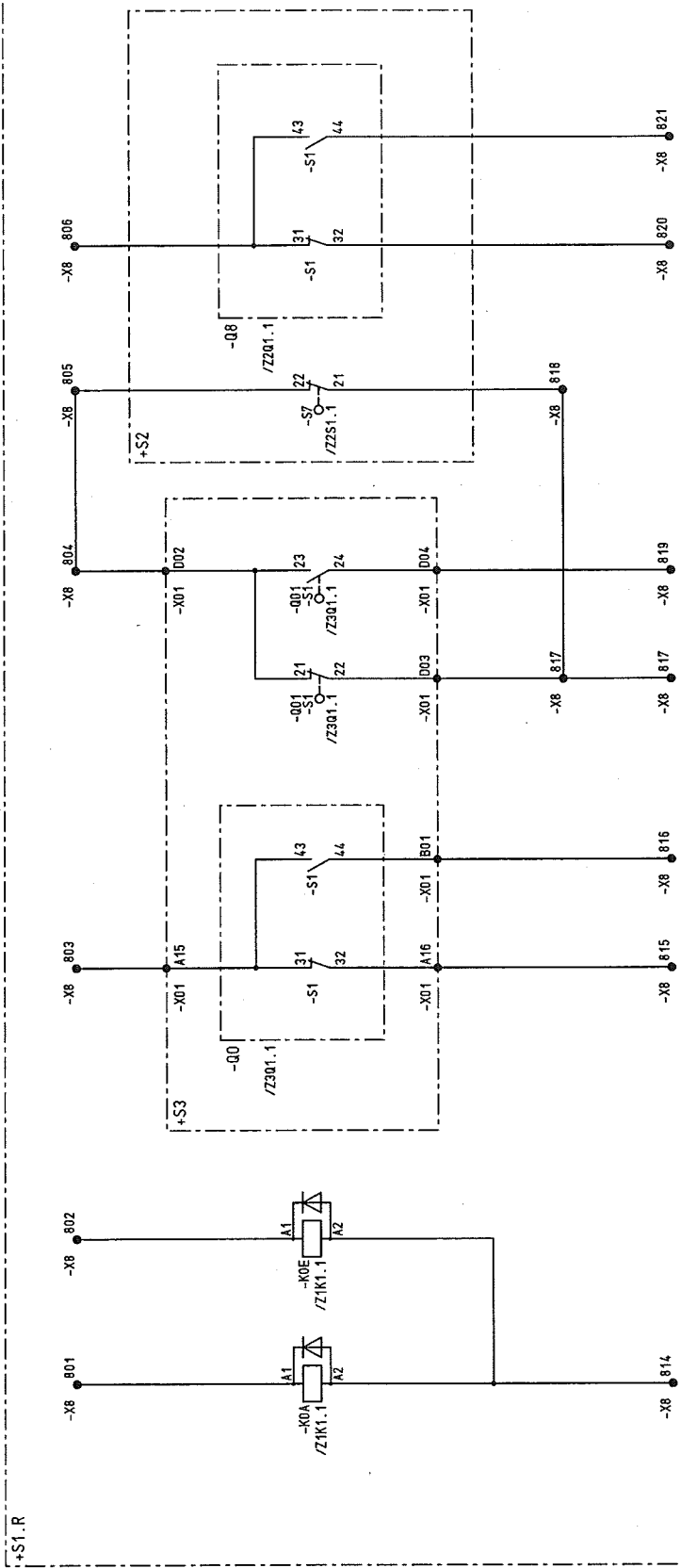




03	AS BUILT	5.12.2005	AD	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA		 <b>AREVA</b>	CIRCUIT DIAGRAM		S=L03	
02	FACT - REV.	30.10.2005	BL	Drawn	Hanticke	S0.3023.01			POSITION INDICA.		/ 001	
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81			PANEL		Sheet 9	
NC.	Alteration	Date	None	Std.		Orig.:			Iss. by:		56Sh.	
		1	2	3	4	5	6	7	8			

POSITION INDICATOR

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

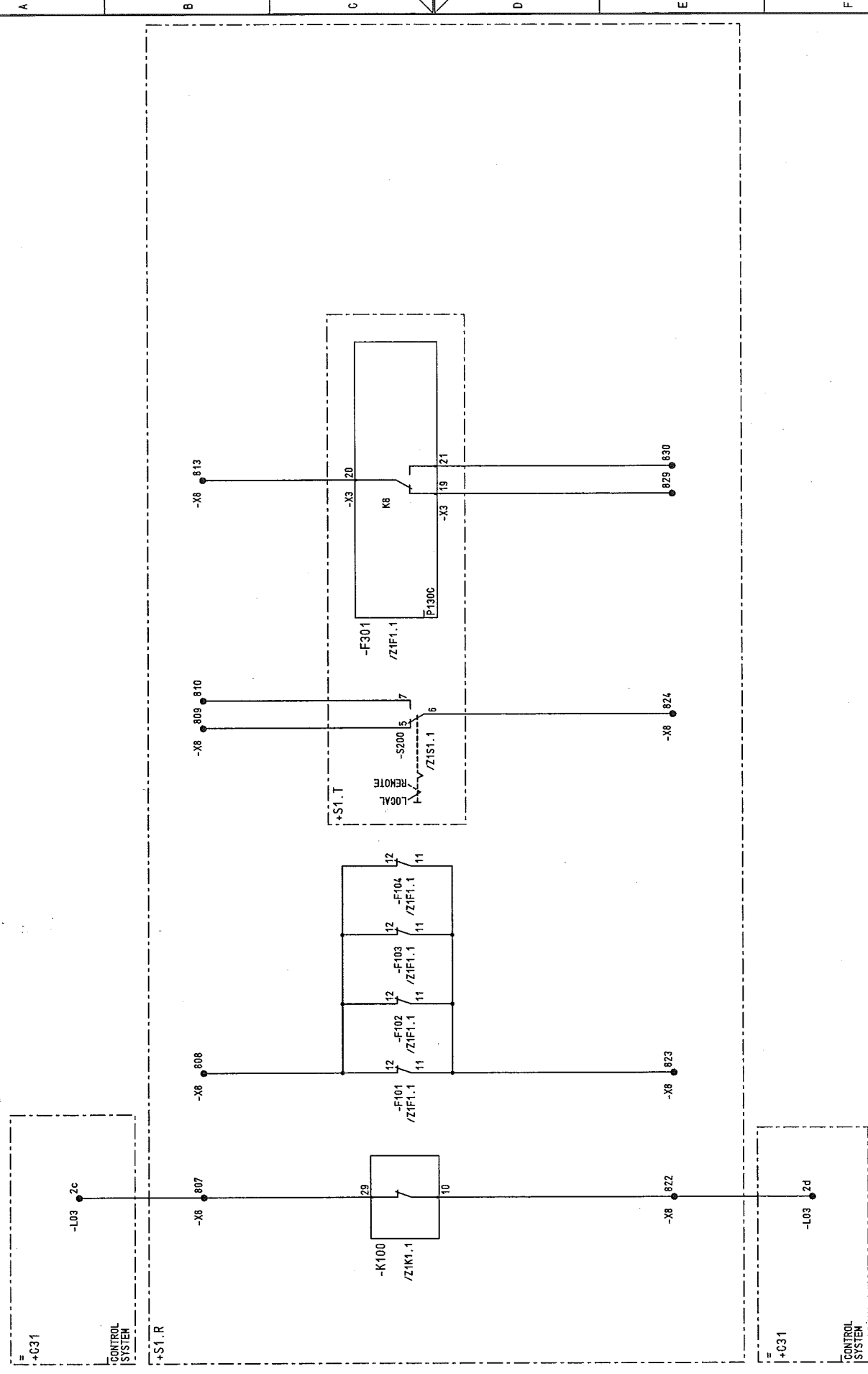



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07.12.2006  
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 ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-407	S	-L03	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönicke	50.3023.01	INTER-FACE				7
01	Approval	30.06.2005	He	Check	Grohmann	SUBSTATION T81	PANEL				6
NO.	Alteration	Date	Named	Std.	Iss. for	Iss. by:	03	MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.	8

BREAKER TRIPPING M.C.B. TRIPPED DOUBLE THROW SWITCH PROTECTION LOCAL / REMOTE FAULT



03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM INTERFACE PANEL	50.3023.01-A4-741407	S	L03		
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01							
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81							
NO.	Alteration	Date	Name	Std.		iss.for	iss.by:	03	Type: 03 MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.		
						1	2	3	4	5	6	7	8

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07.12.2006  
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03  
02  
01  
NO.

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12.2006

CONTROL SYSTEM

+C31

+S1.R

CONTROL SYSTEM

+C31

1a 1c 1e 1g 1b 1d 1f

-L03

-X8

831 833 835 837 839 841

832 834 836 838 840 842

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DNE442

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DNE442

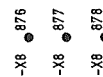
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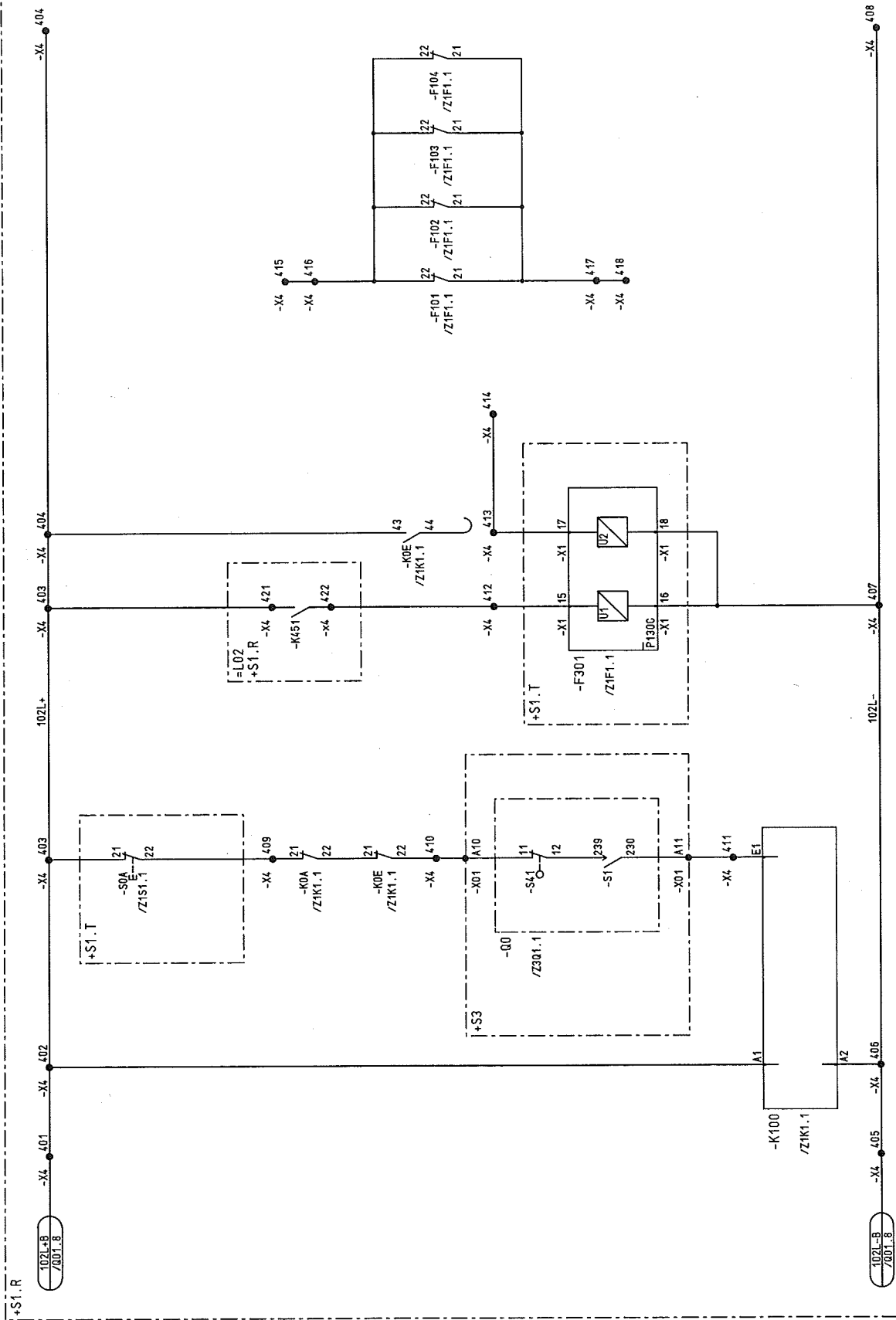
-X8 856

-X8 857



03	AS BUILT	5.12.2005	10	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	CIRCUIT DIAGRAM SPARE CONTACTS PANEL	50.3023.01-A4-741407	S = L03		
02	FACT. -REV.	30.10.2005	BL	Drawn	Hönlcke	50.3023.01					Typ: 03 MOTOR FEEDER	Sheet 13 56SR
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81						
NO.	Alteration	Date	Name	Sid.		Orig:	iss for	iss by:				

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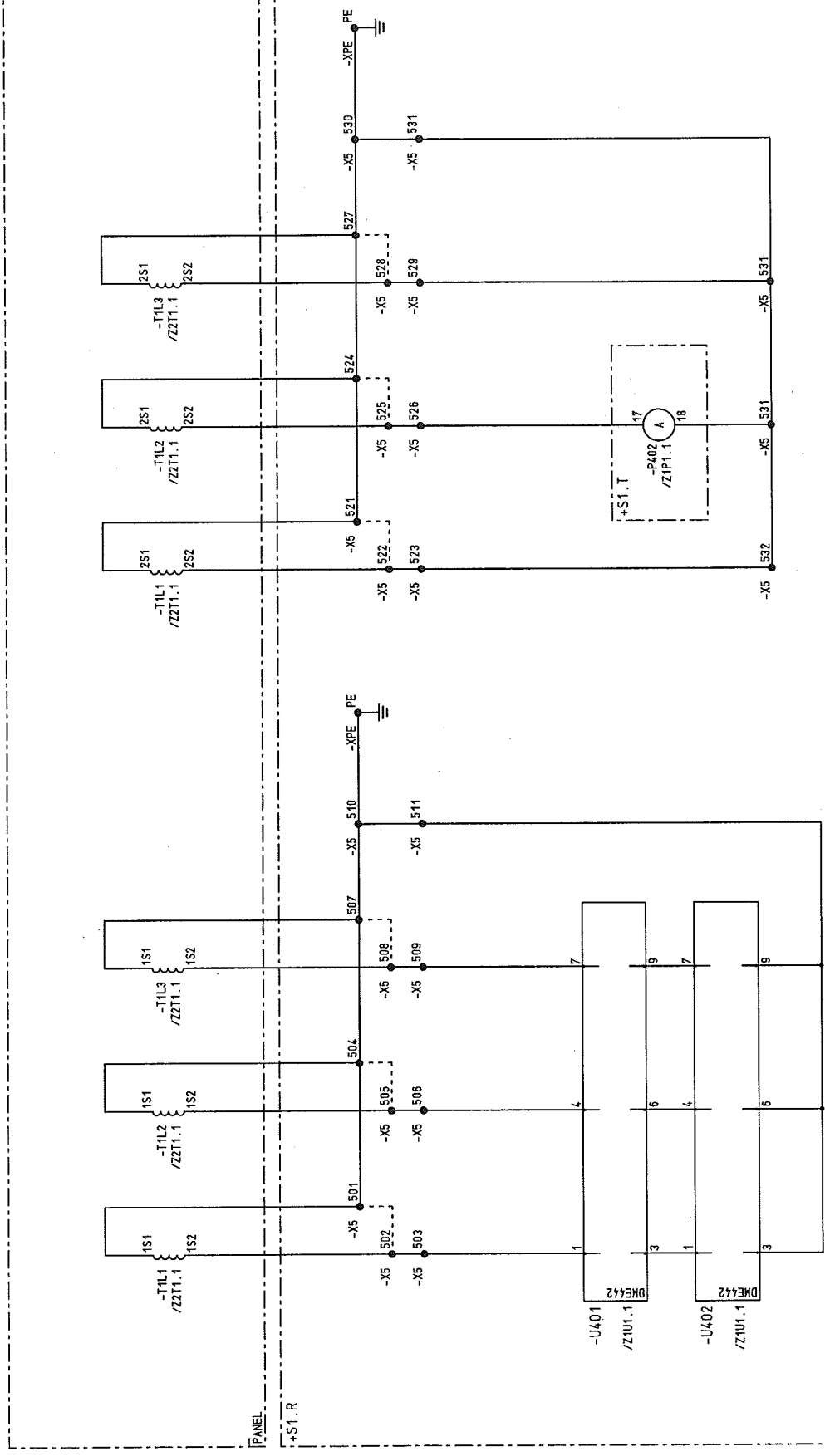


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MEASUREMENT

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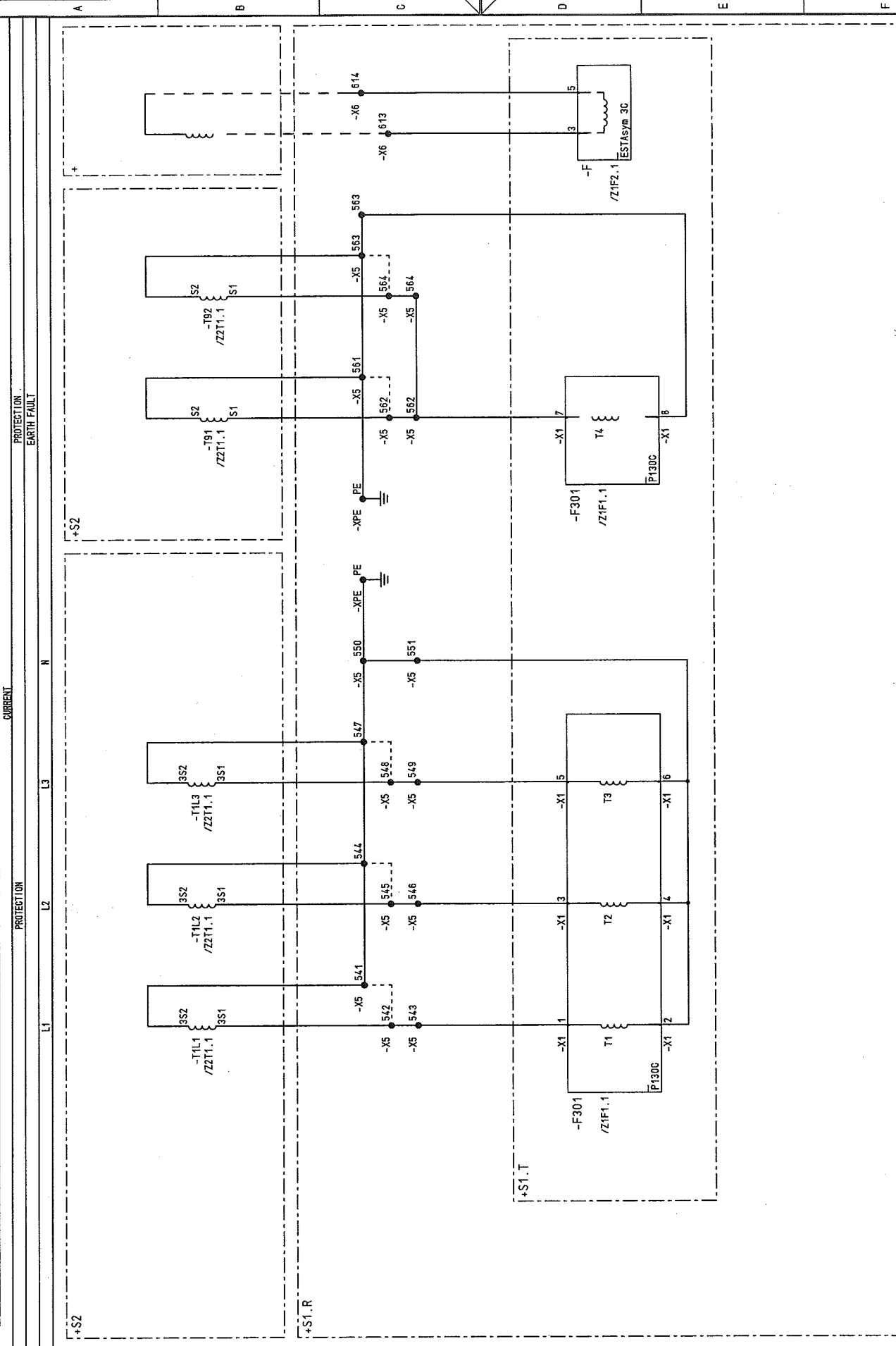


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03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-44-741-407	S	L03	/ S01
02	FACT. -REV.	30.10.2005	BL	Drawn	Hönigke	50.3023.01	CURR. TRANSF.				Sheet 15
01	Approval	30.06.2005	Hoe	Checked	Grahamm	SUBSTATION T81	PANEL				56Sh.
INC.	Alteration	Date	Nom	Std		Orig.:	Iss. for	Iss. by:	Typ: 03	MOTOR FEEDER	D009781.01.603-3.AHA



03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741-407	S=L03	/S02
02	FACT.-REV.	30.10.2005	BL	Drawn	Hánlické	50.3023.01	CURR. TRANSF.			Sheet 16
01	Approval	30.06.2005	Hae	Checked	Grahmann	SUBSTATION T81	PANEL	03	Typ: 03	Sheet 16
NO.	Alteration	Date	Name	Sld.	Iss. for	Iss. by:				56Sh.
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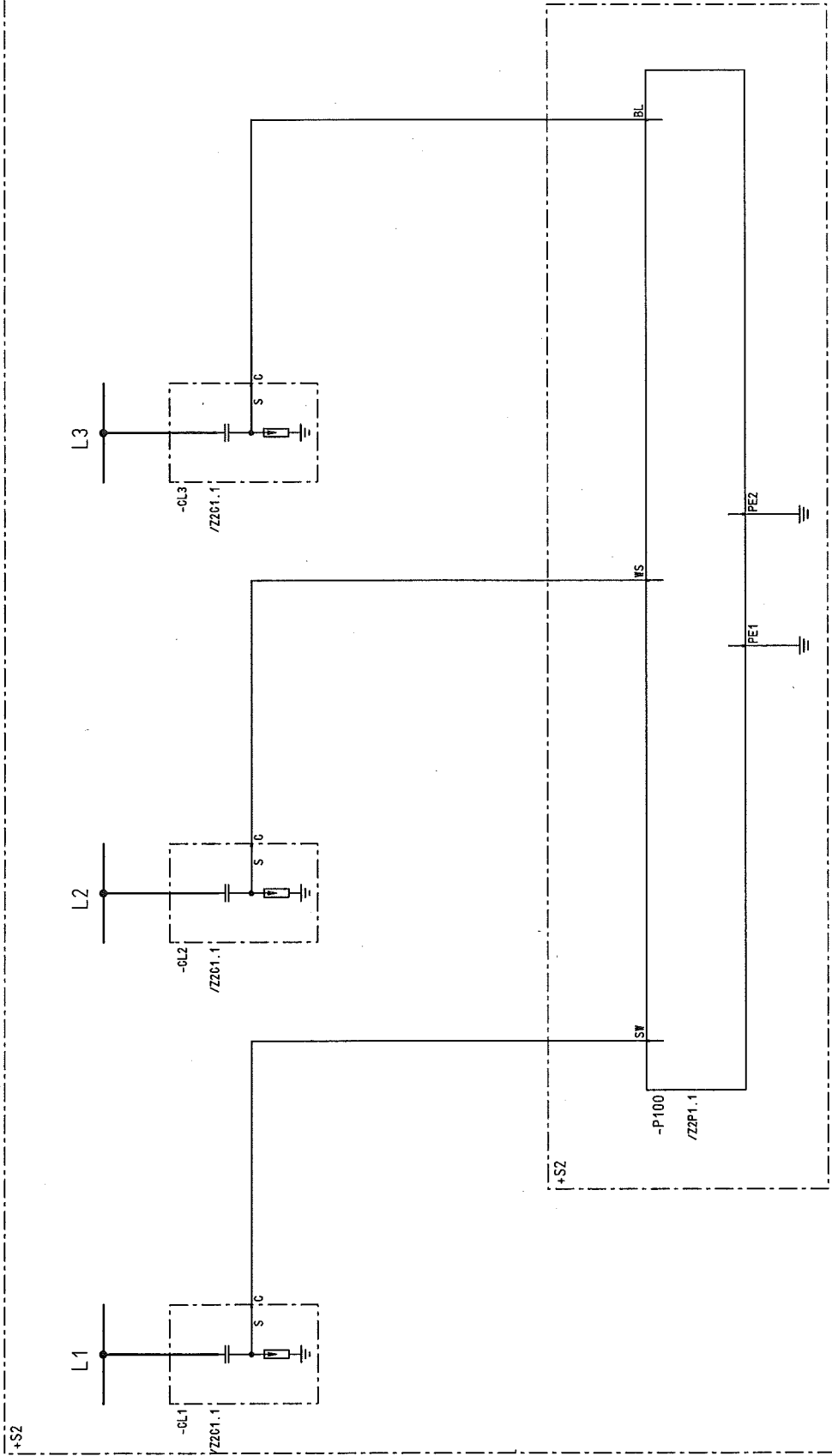
Copyright as per DIN 34 to be observed!

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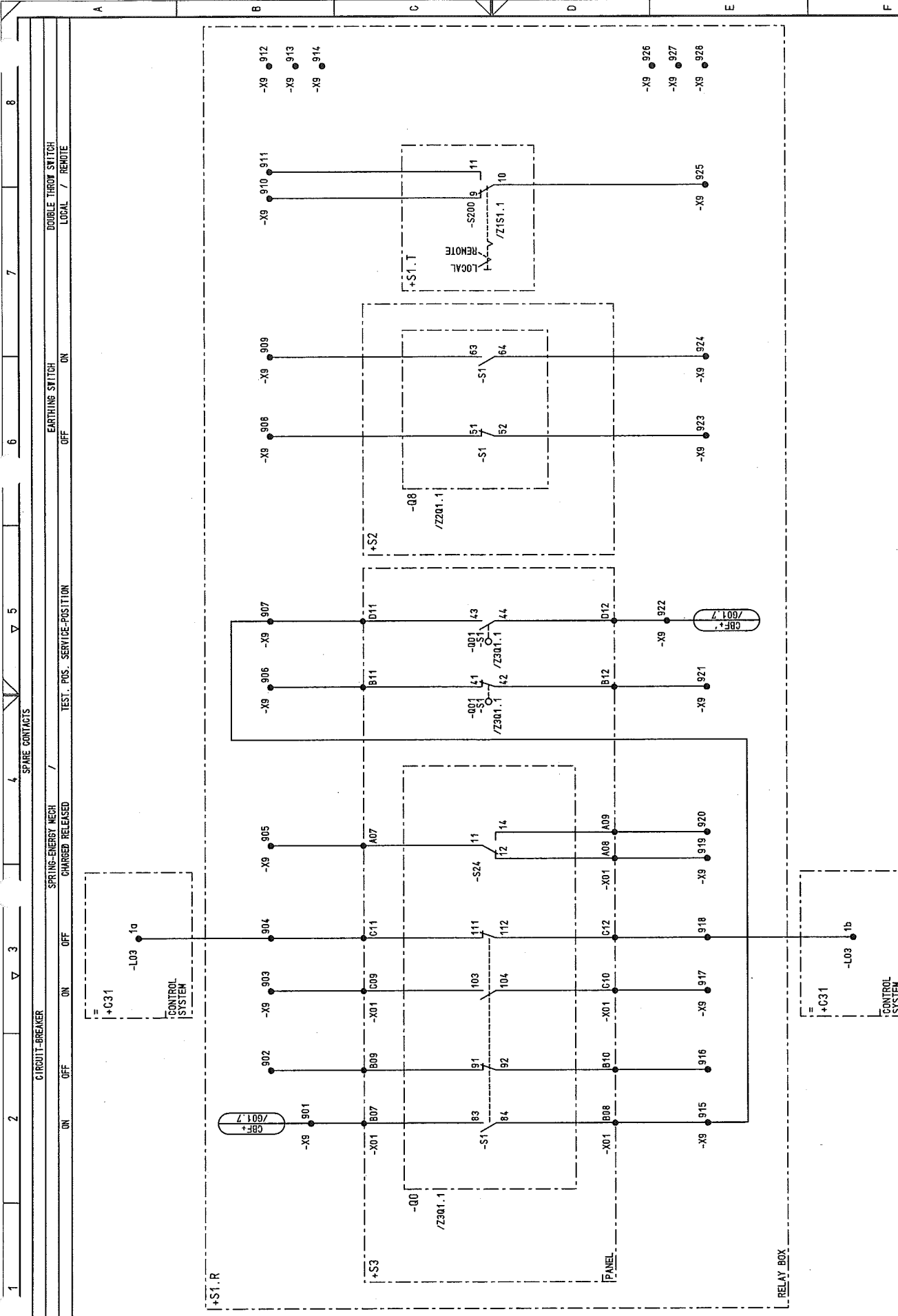


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03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-M-711-407	S-L03	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01	IVIS			
01	Approval	30.06.2005	Hae	Checked	Grahamann	SUBSTATION T81	PANEL			
NO.	Alteration	Date	Named	Std.	Iss. for	Iss. by:	03	MOTOR FEEDER	D009781.01.603-3.AHA	56Sh

D0978101 Copyright as per DIN 34 to be observed!

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CIRCUIT-BREAKER				SPARE CONTACTS				EARTHING SWITCH				DOUBLE THROW SWITCH			
ON				OFF				ON				LOCAL / REMOTE			
OFF				ON				TEST. POS. SERVICE-POSITION				OFF			
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US STEEL KOSICE/SLOVAKIA				50.3023.01				A4-741407				S1=L03			
Date				Date				Date				Date			
03	AS BUILT	5.2.2005	AD	06.06.2005	AD	06.06.2005	AD	06.06.2005	AD	06.06.2005	AD	06.06.2005	AD	06.06.2005	AD
02	FACT. - REV.	30.10.2005	BL	Drawn	Hornik	30.10.2005	BL	Drawn	Hornik	30.10.2005	BL	Drawn	Hornik	30.10.2005	BL
01	Approval	30.06.2005	Hoe	Check	Grohmann	30.06.2005	Hoe	Check	Grohmann	30.06.2005	Hoe	Check	Grohmann	30.06.2005	Hoe
NO.	Alteration	Date	Name	Std.	Date	Name	Std.	Date	Name	Std.	Date	Name	Std.	Date	Name
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003	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT			50..3023..01-A4-741-07		S=L03		
002	FACT.-REV.	30.10.2005	BL	Drawn	Hini cke	50..3023..01			PANEL			Typ: 03	Sheet 20	/ Zif1	
001	Approval	30.06.2005	Hoe	Checked	Grahmann	SUBSTATION T81			03			MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.	
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	Iss. by:	1	2	3	4	5	6	7	8

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-44-741407	S	L03	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	PANEL	Typ: 03	MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.
01	Approval	30.06.2005	Hop	Check	Grahamann	SUBSTATION T81	03	iss.by:			
NO.	Alteration	Date	Name	Std.	Orig.	iss.for					

1	2	3	4	5	6	7	8
<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X1</p> <p>MEANING</p> <p>LEITERSTROM 11</p> <p>LEITERSTROM 12</p> <p>LEITERSTROM 13</p> <p>EROSTROM IE</p> <p>SPANNUNG UVE</p> <p>SPANNUNG UZE</p> <p>SPANNUNG UBE</p> <p>HILFSPANNUNG</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X2</p> <p>MEANING</p> <p>LEITERSTROM 14</p> <p>LEITERSTROM 15</p> <p>LEITERSTROM 16</p> <p>LEITERSTROM 17</p> <p>LEITERSTROM 18</p> <p>LEITERSTROM 19</p> <p>LEITERSTROM 20</p> <p>LEITERSTROM 21</p> <p>LEITERSTROM 22</p> <p>LEITERSTROM 23</p> <p>LEITERSTROM 24</p> <p>LEITERSTROM 25</p> <p>LEITERSTROM 26</p> <p>LEITERSTROM 27</p> <p>LEITERSTROM 28</p> <p>LEITERSTROM 29</p> <p>LEITERSTROM 30</p> <p>LEITERSTROM 31</p> <p>LEITERSTROM 32</p> <p>LEITERSTROM 33</p> <p>LEITERSTROM 34</p> <p>LEITERSTROM 35</p> <p>LEITERSTROM 36</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X3</p> <p>MEANING</p> <p>LEITERSTROM 37</p> <p>LEITERSTROM 38</p> <p>LEITERSTROM 39</p> <p>LEITERSTROM 40</p> <p>LEITERSTROM 41</p> <p>LEITERSTROM 42</p> <p>LEITERSTROM 43</p> <p>LEITERSTROM 44</p> <p>LEITERSTROM 45</p> <p>LEITERSTROM 46</p> <p>LEITERSTROM 47</p> <p>LEITERSTROM 48</p> <p>LEITERSTROM 49</p> <p>LEITERSTROM 50</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X4</p> <p>MEANING</p> <p>LEITERSTROM 51</p> <p>LEITERSTROM 52</p> <p>LEITERSTROM 53</p> <p>LEITERSTROM 54</p> <p>LEITERSTROM 55</p> <p>LEITERSTROM 56</p> <p>LEITERSTROM 57</p> <p>LEITERSTROM 58</p> <p>LEITERSTROM 59</p> <p>LEITERSTROM 60</p> <p>LEITERSTROM 61</p> <p>LEITERSTROM 62</p> <p>LEITERSTROM 63</p> <p>LEITERSTROM 64</p> <p>LEITERSTROM 65</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X5</p> <p>MEANING</p> <p>LEITERSTROM 66</p> <p>LEITERSTROM 67</p> <p>LEITERSTROM 68</p> <p>LEITERSTROM 69</p> <p>LEITERSTROM 70</p> <p>LEITERSTROM 71</p> <p>LEITERSTROM 72</p> <p>LEITERSTROM 73</p> <p>LEITERSTROM 74</p> <p>LEITERSTROM 75</p> <p>LEITERSTROM 76</p> <p>LEITERSTROM 77</p> <p>LEITERSTROM 78</p> <p>LEITERSTROM 79</p> <p>LEITERSTROM 80</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X6</p> <p>MEANING</p> <p>LEITERSTROM 81</p> <p>LEITERSTROM 82</p> <p>LEITERSTROM 83</p> <p>LEITERSTROM 84</p> <p>LEITERSTROM 85</p> <p>LEITERSTROM 86</p> <p>LEITERSTROM 87</p> <p>LEITERSTROM 88</p> <p>LEITERSTROM 89</p> <p>LEITERSTROM 90</p> <p>LEITERSTROM 91</p> <p>LEITERSTROM 92</p> <p>LEITERSTROM 93</p> <p>LEITERSTROM 94</p> <p>LEITERSTROM 95</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X7</p> <p>MEANING</p> <p>LEITERSTROM 96</p> <p>LEITERSTROM 97</p> <p>LEITERSTROM 98</p> <p>LEITERSTROM 99</p> <p>LEITERSTROM 100</p> <p>LEITERSTROM 101</p> <p>LEITERSTROM 102</p> <p>LEITERSTROM 103</p> <p>LEITERSTROM 104</p> <p>LEITERSTROM 105</p> <p>LEITERSTROM 106</p> <p>LEITERSTROM 107</p> <p>LEITERSTROM 108</p> <p>LEITERSTROM 109</p> <p>LEITERSTROM 110</p>	<p>MOUNTING +S1.T</p> <p>APPA. DESIG -F301</p> <p>PIN -X8</p> <p>MEANING</p> <p>LEITERSTROM 111</p> <p>LEITERSTROM 112</p> <p>LEITERSTROM 113</p> <p>LEITERSTROM 114</p> <p>LEITERSTROM 115</p> <p>LEITERSTROM 116</p> <p>LEITERSTROM 117</p> <p>LEITERSTROM 118</p> <p>LEITERSTROM 119</p> <p>LEITERSTROM 120</p> <p>LEITERSTROM 121</p> <p>LEITERSTROM 122</p> <p>LEITERSTROM 123</p> <p>LEITERSTROM 124</p> <p>LEITERSTROM 125</p>

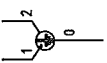
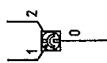
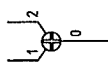
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03	AS BUILT	5.12.2005	AD	106.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	LIST OF EQUIPMENT		50_3023_01-A4-741407		S=L03	/ ZIF11
02	FACT - REV.	30.10.2005	BL	Drawn Hniece	50_3023_01		PANEL		Type: 03		Sheet22	
01	Approval	30.05.2005	Hne	Check Grohmann	SUBSTATION T81	03		MOTOR FEEDER		D009781.01..603-3..AHA	56Sh	
00.	Alteration				Orig.:	iss for		iss by:				

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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	LIST OF EQUIPMENT	50.3023.01-A4-741407	S1-L03	7 ZHI
02	FACT. - REV.	30.10.2005	BL	Drawn	HdnTcke	50.3023.01					
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81					
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Orig.	PANEL 03	MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.

1	2	3	4	5	6	7	8
Stuck-TITTY	DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APP. DESIG.	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	STELLUNGSMELDER RUECKMELDER	Manuf.: messMa Ord.No.: EST-L-1746-08-330-21 TRENNSCHALTER	Type: EST-L				
	Technical components per device	Typ					
	: 220VAC/220VDC						
	: 6ELB						
	Ordering number						
	Application	Settings	Location	Item designation			
	CIRCUIT-BREAKER	ON/OFF	+S1.T	-H0			
1	STELLUNGSMELDER RUECKMELDER	Manuf.: messMa Ord.No.: EST-L-1746-08-231-21 SCHALTWAGEN	Type: EST-L				
	Technical components per device	Typ					
	: 220VAC/220VDC						
	: 6ELB						
	Ordering number						
	Application	Settings	Location	Item designation			
	SWITCHING TRUCK	SERVICE POS. TEST POS.	+S1.T	-H01			
1	STELLUNGSMELDER RUECKMELDER	Manuf.: messMa Ord.No.: EST-L-1746-08-131-21 ENDER	Type: EST-L				
	Technical components per device	Typ					
	: 220VAC/220VDC						
	: 6ELB						
	Ordering number						
	Application	Settings	Location	Item designation			
	EARTHING SWITCH	OFF/ON	+S1.T	-H8			



iss.by:



1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APP. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS			
1	TIME RELAY OUTPUT PULSE t=50ms FUNCTION : IMPULSDEHNER Technical components per device Type : 24-240AC/DC Rated voltage : 24VDC Type: C27900 Manuf.: AREVA Ord. No.: 701917/1						
2	AUXILIARY CONTACTOR Rated voltage : 24VDC Technical components per device Type : Ordering number Application : C.B. OPEN : S1.R C.B. CLOSED : Manuf.: Schneider Electric Ord. No.: CA3-KN31 B03						
2	AUXILIARY CONTACTOR Rated voltage : 220VDC Technical components per device Type : Ordering number Application : ANTI-PUMPING FEATURE Manuf.: Schneider Electric Ord. No.: CA3-KN31 M03						
1	AUXILIARY CONTACTOR Rated voltage : 220VDC Technical components per device Type : Ordering number Application : REMOTE Manuf.: Schneider Electric PO NO.: CA3-KN31 M03-LA1 KN13						

AS BUILT 5.12.2005 AD Date 06.06.2005

FACT -REV. 30.10.2005 BL Drawn Hönigke

Approval 30.06.2005 Hae Check Gschmann

Alteration Date Name Std. 2

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T81

Orig.: Iss.for

LIST OF EQUIPMENT

PANEL 03

50.3023.01-A4-741-407

Typ: 03 MOTOR FEEDER

D009781.01.603-3.AHA

Sheet 25 of 56

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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.)			WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)
1	MEAS. UNIT		Manuf. WEIGEL		Type: E072K			
MOVING-IRON AMMETER		Ord. No. :		100 % OVERLOAD		TRANSFORMER CONNECTION/1A		
SCALE:								
MEASUREMENT VARIABLE: 1A								
Technical components per device		Type		Ordering number				
Application		Settings		Location		Item designation		
CURRENT MEAS I2		*S1.T		/S01.6		-P402		
<div><div>47</div><div>A</div><div>18</div></div>								

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-A4-741-407	S=L03	/Z1P1
02	FACT.-REV.	30.10.2005	BL	Date	30.06.2005	Drawn Hanticke	PANEL	Typ: 03	MOTOR FEEDER	Sheet 26
01	Approval	30.06.2005	He	Date	30.06.2005	Check Grahmann	03	D009781.01.603-3.AHA	56Sh.	
NO.	Alteration	Date	Name/Sid.	Iss. for	Iss. by:					

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-A4-741-407	S	L03	8
02	FACT.-REV.	30.10.2005	BL	Drawn	Högnicke	50.3023.01	PANEL	Typ: 03			7
01	Approval	30.06.2005	He	Check	Grohmann	SUBSTATION T81	ISS.BY:	MOTOR FEEDER			6
NO.	Alteration	Date	Name	Sid.	Orig.	iss.for					5
											4
											3
											2
											1

Book- Title	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
1	PB Push-button OFF Manuf.: Schneider Electric Ord.No.: RED-AND-WHITE CIRCLE Type: HARMONY Style 5	Switching contacts : 25,10 Contact sequence : Technical components per device Type Ordering number RED-AND-WHITE CIRCLE S071457 ZBS-AA432 Fixing flange S071460 ZBS-AZ009 Auxil switch (NO) S071461 13 (NO) Auxil switch (NC) S071462 10 (NC)			
	Application: CIRCUIT-BREAKER OFF Settings: +S1.T Location: +S1.T Item designation: -SDA				
1	SWITCH Manuf.: SONTHEIMER Ord.No.: WS4/8ZM/NS Type: WS4/8ZM/NS-TI.0511+T INSCRIPTION: 1=LOCAL 2=REMOTE Switching contacts : 4 Positions : 2 Technical components per device	Ordering number Double throw switch 40/A/F			
	Application: DOUBLE THROW SWITCH 40/A/F Settings: +S1.T Location: +S1.T Item designation: -S200				

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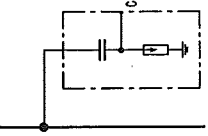
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33	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50.3023.01-A4-741407	S=103	/ ZUII
2	FACT. -REV.	30.10.2005	BL	Drawn	Hancke	50.3023.01					
1	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		PANEL			
0.	Approval	Date	Name	Std.	Iss. for	Orig.	Iss. by:	03	Typ: 03 MOTOR FEEDER	D009781.01.603-3.AHA	Sheet 28 56Sh.

D0978101 Copyright as per DIN 34 to be observed!

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1	2	3	4	5	6	7	8	
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				REMARK
3	IVIS POST INSULATOR Manuf.: ALSTOM/SW Ord.No.:	Type: IVIS						
Technical components per device								
Application								
CAP. TAPPING								
CAP. TAPPING								
CAP. TAPPING								
Settings								
Location								
-CL1								
-CL2								
-CL3								
Item designation								
-CL1								
-CL2								
-CL3								

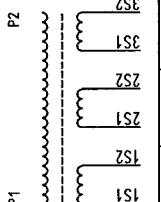

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01-A4-741-407	S=L03	/ZSC1
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01	PANEL			
01	Approval	30.06.2005	Hae	Checked	Grahamm	SUBSTATION T81	03	Typ: 03	MOTOR FEEDER	Sheet 29
NO.	Alteration	Date	Named	Sld.	Orig.	Iss. for	Iss. by:	D009781.01.603-3.AHA		56Sh.

303	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KÖSCICE/SLOVAKIA	 <b>AREVA</b>	Betriebsmittelperson		50.3023.01-A4-741-407		S = L03
22	FACT. -REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL		Type: 03	/ Z2P1	
11	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		03		MOTOR FEEDER	Sheet 30	
40.	Alteration	Date	Name	Sig.	Iss. for	Orig.	Iss. by:			D009781.01.603-3. AHA		56Sh.

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003	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01-44-741407	S=L03	/ ZFS1
002	FAGT - REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL				
001	Approval	30.10.2005	Hoe	Check	Grohmann	SUBSTAT ION 1781						
NO.	Alteration	Date	Name	Std.	Orig.:	iss.for:	iss.by:	03	Typ: 03	MOTOR FEEDER	D009781.01.603-3.AHA	Sheet 32 / 56Sh.



1	2	3	4	5	6	7	8																
SLACK- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)																			
3	CURR. TRANSF. 250/11/11A MANUF.: AEG PO NO.:	TYPE CT12																					
<b>TECHNICAL COMPONENTS</b>																							
ORDER NO.																							
<table border="1"><thead><tr><th>APPLICATION</th><th>SETTINGS</th><th>MOUNTING</th><th>BTM IDENTIFIER</th></tr></thead><tbody><tr><td>CURR. TRANSF. L1</td><td></td><td>+S2</td><td>-11.1</td></tr><tr><td>CURR. TRANSF. L2</td><td></td><td>+S2</td><td>-11.2</td></tr><tr><td>CURR. TRANSF. L3</td><td></td><td>+S2</td><td>-11.3</td></tr></tbody></table>								APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER	CURR. TRANSF. L1		+S2	-11.1	CURR. TRANSF. L2		+S2	-11.2	CURR. TRANSF. L3		+S2	-11.3
APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER																				
CURR. TRANSF. L1		+S2	-11.1																				
CURR. TRANSF. L2		+S2	-11.2																				
CURR. TRANSF. L3		+S2	-11.3																				
2	CURR. TRANSF. CABLE-TYPE CT 60/1A MANUF.: AEG PO NO.:	TYPE RKT 250/160																					
<b>TECHNICAL COMPONENTS</b>																							
ORDER NO.																							
<table border="1"><thead><tr><th>APPLICATION</th><th>SETTINGS</th><th>MOUNTING</th><th>BTM IDENTIFIER</th></tr></thead><tbody><tr><td>CABLE-TYPE CT</td><td></td><td>+S2</td><td>-191</td></tr><tr><td>CABLE-TYPE CT</td><td></td><td>+S2</td><td>-192</td></tr></tbody></table>								APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER	CABLE-TYPE CT		+S2	-191	CABLE-TYPE CT		+S2	-192				
APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER																				
CABLE-TYPE CT		+S2	-191																				
CABLE-TYPE CT		+S2	-192																				

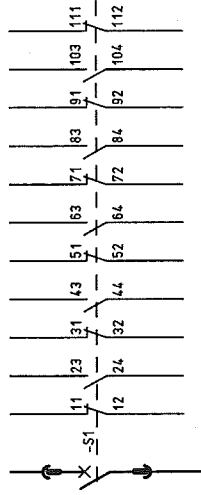
US STEEL KOSICE/SLOVAKIA				LIST OF EQUIPMENT		50.3023.01-A4-741-407	
50.3023.01				PANEL		S1=L03	
SUBSTATION T81				03			
Orig.				Iss.by:		Typ: 03	
Date				Iss.for		MOTOR FEEDER	
Name/Std.						D009781.01.603-3.AHA	
Approval						/ Z2T1	
Alteration						Sheet 33	
NO.						56Sh.	



03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023_01-A4-741-407		S =103	
01	F-ACI - REV.	30.10.2005	BL	Drawn	Han Icke	50_3023_01			PANEL				
02	Approval	30.06.2005	Hoe	Checked	Grochmann	SUBSTATION T81		03		Typ: 03			Sheet 34
NQ.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	03		MOTOR FEEDER		D009781.01.603-3.AHA	56Sh.

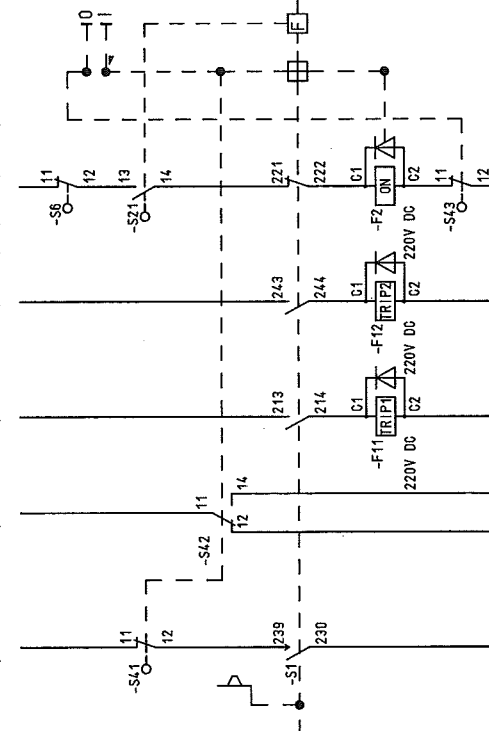
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	PANEL 03	LIST OF EQUIPMENT	150.3023.01-A4-741-407 S=I.03	/Z02 Sheet 35 56Sh.
03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA			
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01			
01	Approval	30.06.2005	Hee	Checked	Grohmann	SUBSTATION T81			

-S1 AUXILIARY SWITCH

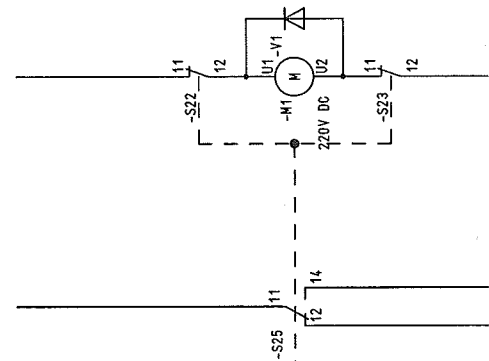


CIRCUIT-BREAKER

- S41 AUXILIARY CONTACT ON/OFF
- S42 AUXILIARY CONTACT ON/OFF
- F11 AUXILIARY TRIP RELEASE
- F12 AUXILIARY TRIP RELEASE
- F2 AUXILIARY CLOSING RELEASE
- S43 AUXILIARY CONTACT ON
- S43 PUSH-BUTTON OFF
- S21 AUX. CONTACT, ENERGY STORE
- S21 TRUCK INTERMEDIATE POSITION



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



1 CABLE												2 WIRES USED SHEETSTATE												3 CABLE-TYPE SECTION												4 CORES -ROUTE												5 CIRCUIT DIAGRAM												6 CABLE MATERIAL												7 Ø COLOR												8 TERM. TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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NO		WIRES USED SHEET STATE										CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø		COLOR		TERM. TYPE					
RÜCK-REF.		1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERN		CORES/ LINE		REMARK	
/001.2																	-X1		107	102L+		301		-X01		A12		0			
/001.2																				102L+		302		-X01		C15		0			
/001.3																				102L+		303				12		0			
/001.4																				102L+		304		+S2 -S7				0			
/001.7																	-X4	401	102L+		305		+S2 -08 -S1			11	0				
/001.2																	-X1	112	102L-		306		+S1.T -H0			0					
/001.3																	+S1.T -H01	0	102L-		307										
/001.7																	-X4	405	102L-		308		+S1.T -H8			0					
/001.2																	+S1.T -H0	1			309		-X01		A13		0				
/001.2																	+S1.T -H0	2			310		-X01		A14		0				
/001.3																	+S1.T -H01	1			311		-X01		C16		0				
/001.4																					312		+S2 -S7			11	0				
/001.3																	+S1.T -H01	2			313		-X01		D01		0				
/001.5																	+S1.T -H8	1			314		+S2 -08 -S1			12					
/001.5																	+S1.T -H8	2			315		+S2 -08 -S1			24					
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/001.8																					317										
/001.8																					318										

AS BUILT

5.12.2005

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003	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM	50_3023_01-44-741-07		V = 03	
002	FACT -REV.	30.10.2005	BL	Drawn	Hníčke	50_3023_01			*S1.R		/ K40	
001	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81			PANEL		Sheet 39	
NO.	Alteration	Date	Name/Sid.	Orla:	Iss. for	Iss. by:	03		Typ: 03	MOTOR FEEDER	0009781.01.603-3.AHA	
											56Sh.	

003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM		50_3023.01-44-741-407	V=L03	
002	FACT - REV.	30.10.2005	BL	Drawn	Hönicke	50_3023.01			PANEL			*\$1.R
001	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81		PANEL		Type: 03		
IND.	Alteration	Date	Name	Std.	Origa.			03		MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.



03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM  PANEL 03	50_3023.01-44-741407 V = L03 \$1.R / \$1
02	FACT. -REV.	30.10.2005	BL	Drawn	Hnlicke	50_3023.01			
01	Approval	30.06.2005	Hne	Check	Grohmann				
00	Approval			Substation	T81				
00	Approval			Order					

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CABLE		WIRES USED SHEET STATE		CABLE TYPE SECTION		CORES		CIRCUIT DIAGRAM		CABLE MATERIAL		COLOR		TERM. TYPE	
										H07V-K 1.5MM2 SW		SW		STANDARD: MTK-P/P	
										POS.: 0 H05V-K 1.0MM2 SW		SW			

03	AS BUILT	5.2.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM		50_3023_01-44-741407		V=L03	
02	FACT -REV.	30.10.2005	BL	Drawn	Hönicke	50_3023_01		PANEL					
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		PANEL					
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	03	Typ:	03	Sheet L5	
										MOTOR FEEDER		56Sh.	
												D009781.01_603-3_AHA	

1		2		3		4		5		6		7		8					
CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø COLOR TERM. TYPE					
NO		CABLE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø COLOR TERM. TYPE					
RÜCK-REF.		NO		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERN		CORES/ LINE		REMARK	
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
/601.7												-X8				828			
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	TERMINAL DIAGRAM	50.3023.01-A4-711-107	V	L03	/ K30
02	FACT. -REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01					+S1.R	
01	Approval	30.06.2005	Re	Check	Grahamm	SUBSTATION T81						Sheet 46
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Orig.	Typ: 03	MOTOR FEEDER	D009781.01.603-3.AHA		56Sh

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	TERMINAL DIAGRAM		50_3023_01-44-741407		V=L03		
02	FACT.-REV.	30.10.2005	BL	Drawn	Hünticke	50_3023_01			PANEL		TYP.: 03		/ NPE	
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81			MOTOR FEEDER		D009781.01.603-3.AHA		Sheet 47	
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	03				56Sh.		

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	-X0	12 -F101	1 -F102	1 -F103	1 -F104	1	
601	DC220V.L- 2 2.5MM2	H07V-K SW	-X0	14 -F101	3 -F102	3 -F103	3 -F104	3	
M01	102L+ 1 1.5MM2	H07V-K SW	-X1	104 -U401	13 -U402				
M01	102L- 1 1.5MM2	H07V-K SW	-X1	108 -U401	14 -U402				
M01	1 1.5MM2	H07V-K SW	-X1	117 -K0A	14 -K200	14			
M01	1 1.5MM2	H07V-K SW	-X1	118 -K0A	13 -K0E	13			
M01	1 1.5MM2	H07V-K SW	-X1	119 -K0E	14 -K200	13 -K200	21		
002	1 1.5MM2	H07V-K SW	-X8	814 -K0A	A2 -K0E	A2			
003	1 1.5MM2	H07V-K SW	-X8	808 -F101	12 -F102	12 -F103	12 -F104	12	
003	1 1.5MM2	H07V-K SW	-X8	823 -F101	11 -F102	11 -F103	11 -F104	11	
R01	1 1.5MM2	H07V-K SW	-K0A		22 -K0E	21			
R01	1 1.5MM2	H07V-K SW	-X4	416 -F101	22 -F102	22 -F103	22 -F104	22	
R01	1 1.5MM2	H07V-K SW	-X4	417 -F101	21 -F102	21 -F103	21 -F104	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	-X5	511 -U402	3 -U402	6 -U402	9		
T01	L1 1 1.5MM2	H07V-K SW	-X6	602 -U401	2 -U402	2			
T01	L2 1 1.5MM2	H07V-K SW	-X6	605 -U401	5 -U402	5			
T01	L3 1 1.5MM2	H07V-K SW	-X6	608 -U401	8 -U402	8			

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Copyright as per DIN 34 to be observed!

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03 AS BUILT 15.12.2005 AD Date 106.06.2005 US STEEL KOS/GE/SLOVAKIA

02 FACT.-REV. 30.10.2005 BL Drawn HbnTicke 50.3023.01

01 Approval 30.06.2005 Hne Check Grohmann SUBSTATION T81

NO Alteration Date Name Std. Iss. for

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50.3023.01-A4-741-407

Typ: 03  
MOTOR FEEDER

D009781.01.603-3.AHA

Sheet 48  
56Sh

CROSS CONNECT. LIST  
RELAY BOX  
PANEL

03



iss.by:

US STEEL KOSICE/SLOVAKIA  
50.3023.01  
SUBSTATION T81

Orig:

AS BUILT 15.12.2005 AD Date 10.06.2005  
FACT.-REV. 30.10.2005 BL Drawn Hnlticke  
Approval 30.06.2005 Hec Check Grohmann

Alteration Date Name Std.

Copyright as per DIN 34 to be observed!

07.12.2006  
HJ0115ME  
L03+51  
ADAM



1

## CROSS CONNECTION

[illegible][illegible]

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
601	103L+ 1 1.5MM2	H07V-K SW		-F301 -X1 13 -F	15				
601	103L- 1 1.5MM2	H07V-K SW		-F301 -X1 14 -F	16				
601	102L+ 1 1.5MM2	H07V-K SW		-F301 -X3 33 -F	30				
601	102L- 1 1.5MM2	H07V-K SW		-F301 -X3 34 -F	32				
601	102L- 1 1.5MM2	H07V-K SW		-50A 13 -S200	1				
601	102L- 1 1.5MM2	H07V-K SW		-F301 -X1 16 -F301 -X1	18				
602	2 2.5MM2	H07V-K SW		-F301 -X1 2 -F301 -X1	4 -F301 -X1 6				

03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST	50.3023.01-44-741-407	V=L03
02	FACT.-REV.	30.10.2005	BL	Drawn	Häbnicke	50.3023.01	RELAY BOX		+S1.T / Q15
01	Approval	30.06.2005	Hse	Checked	Grohmann	SUBSTATION T81	PANEL		Sheet 51
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	03	MOTOR FEEDER	56Sh.
						D009781.01.603-3.AHA			

Copyright as per DIN 34 to be observed!

00978101

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

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

A				B				C				
+												+
1	-X1 /L01.2 H05V-K 1.0MM2 SW	101		-X8 /B01.4 H05V-K 1.0MM2 SW	816		-X1 /M01.5	134		-X3 /D01.3 H05V-K 1.0MM2 SW	313	1
2	-X1 /L01.2 H05V-K 1.0MM2 SW	102		-X8 /B02.2 H05V-K 1.0MM2 SW	858		-X1 /M01.5	110		-X8 /D02.5 H05V-K 1.0MM2 SW	804	2
3	-X1 /L01.6 H05V-K 1.0MM2 SW	116		-X8 /B03.2 H05V-K 1.0MM2 SW	865					-X8 /D02.5 H05V-K 1.0MM2 SW	817	3
4	-X1 /L01.6 H05V-K 1.0MM2 SW	110		-X8 /B04.2 H05V-K 1.0MM2 SW	866					-X8 /D02.5 H05V-K 1.0MM2 SW	819	4
5	-X1 /L01.7 H05V-K 1.0MM2 SW	121		-X0 /B05.3 H05V-K 1.0MM2 SW	5		-X8 /D05.4 H05V-K 1.0MM2 SW	861				5
6	-X1 /L01.7 H05V-K 1.0MM2 SW	123		-X0 /B06.3 H05V-K 1.0MM2 SW	7		-X8 /D05.4 H05V-K 1.0MM2 SW	869				6
7	-X9 /L01.4 H05V-K 1.0MM2 SW	905		-X9 /B07.2 H05V-K 1.0MM2 SW	901					-X8 /D05.4 H05V-K 1.0MM2 SW	862	7
8	-X9 /L01.3 H05V-K 1.0MM2 SW	919		-X9 /B08.2 H05V-K 1.0MM2 SW	915					-X8 /D05.4 H05V-K 1.0MM2 SW	870	8
9	-X9 /L01.4 H05V-K 1.0MM2 SW	970		-X9 /B09.2 H05V-K 1.0MM2 SW	902		-X9 /D01.3 H05V-K 1.0MM2 SW	903				9
10	-X4 /L01.3 H05V-K 1.0MM2 SW	410		-X9 /B10.2 H05V-K 1.0MM2 SW	916		-X9 /D01.3 H05V-K 1.0MM2 SW	917				10
11	-X1 /L01.3 H05V-K 1.0MM2 SW	411		-X9 /B11.4 H05V-K 1.0MM2 SW	906		-X9 /D01.3 H05V-K 1.0MM2 SW	904		-X9 /D01.5 H05V-K 1.0MM2 SW	907	11
12	-X3 /L01.2 H05V-K 1.0MM2 SW	302		-X9 /B12.4 H05V-K 1.0MM2 SW	921		-X9 /D01.3 H05V-K 1.0MM2 SW	918		-X9 /D01.5 H05V-K 1.0MM2 SW	922	12
13	-X3 /L01.2 H05V-K 1.0MM2 SW	309		-X8 /B13.3 H05V-K 1.0MM2 SW	860							13
14	-X3 /L01.2 H05V-K 1.0MM2 SW	310		-X8 /B14.3 H05V-K 1.0MM2 SW	868							14
15	-X8 /L02.3 H05V-K 1.0MM2 SW	803		-X8 /B15.3 H05V-K 1.0MM2 SW	859		-X3 /D01.3 H05V-K 1.0MM2 SW	303				15
16	-X8 /L02.3 H05V-K 1.0MM2 SW	815		-X8 /B16.3 H05V-K 1.0MM2 SW	867		-X3 /D01.3 H05V-K 1.0MM2 SW	311				16
+												+

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

H0115ME  
 L03+51  
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 ADAM

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	IUS STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01-A4-741-407	V=L03	/S01
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	CIRCUIT-BREAKER		+S1.R	/S01
01	Approval	30.06.2005	Haa	Checked	Grohmann	SUBSTATION T81	PANEL			Sheet50
NO.	Alteration	Date	Name	Std.	Iss.for	Iss.by:	03	MOTOR FEEDER	D009781.01.603-3.AHA	56Sh.



# CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	0 1.0MW2	H05V-K SW	-X01	B05 -S1	-00 71				
D01	0 1.0MW2	H05V-K SW	-X01	B06 -S1	-00 72				
L01	102L+ 0 1.0MW2	H05V-K SW	-X01	A01 -S22	-00 11				
L01	102L- 0 1.0MW2	H05V-K SW	-X01	A02 -S23	-00 12				
M01	0 1.0MW2	H05V-K SW	-F11	-00 C1 -S1	-00 214				
M01	0 1.0MW2	H05V-K SW	-F2	-00 C1 -S1	-00 222				
M01	0 1.0MW2	H05V-K SW	-F2	-00 C2 -S43	-00 11				
M01	0 1.0MW2	H05V-K SW	-S1	-00 221 -S21	-00 14				
M01	0 1.0MW2	H05V-K SW	-S21	-00 13 -S6	-00 12				
M01	0 1.0MW2	H05V-K SW	-X01	A03 -S1	-00 213				
M01	102L- 0 1.0MW2	H05V-K SW	-X01	A04 -F11	-00 C2				
M01	0 1.0MW2	H05V-K SW	-X01	A05 -S6	-00 11				
M01	0 1.0MW2	H05V-K SW	-X01	A06 -S43	-00 12				
001	102L+ 0 1.0MW2	H05V-K SW	-X01	A12 -S1	-00 11 -S1	-00 23			
001	0 1.0MW2	H05V-K SW	-X01	A13 -S1	-00 12				
001	0 1.0MW2	H05V-K SW	-X01	A14 -S1	-00 24				
001	102L+ 0 1.0MW2	H05V-K SW	-X01	C15 -S1	-001 11 -S1	-001 13			
001	0 1.0MW2	H05V-K SW	-X01	C16 -S1	-001 12				
001	0 1.0MW2	H05V-K SW	-X01	D01 -S1	-001 14				
002	0 1.0MW2	H05V-K SW	-X01	A15 -S1	-00 31 -S1	-00 43			

07.12.2006		HJ0115ME		ADAM	
03	AS BUILT	15.12.2005	AD	Date	06.06.2005
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke
01	Approval	30.06.2005	Hoe	Check	Grohmann
NO.	Alteration	Date	Name	Std.	Orig.
US STEEL KOSICE/SLOVAKIA			50.3023.01		
SUBSTATION T81			50.3023.01		
Iss. for			Iss. by:		
GROSS CONNECT - LIST			SWITCHING TRUCK		
PANEL			03		
50.3023.01-A4-741-407			V=L03		
Typ: 03			D009781.01.603-3.AHA		
MOTOR FEEDER			56Sh.		
Sheet13			/ 030		

Copyright as per DIN 34 to be observed!

D00978101

# CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
002	0 1.0MW2	H05V-K SW	-X01	A16 -S1	-00 32				
002	0 1.0MW2	H05V-K SW	-X01	B01 -S1	-00 44				
002	0 1.0MW2	H05V-K SW	-X01	D02 -S1	-001 21 -S1	-001 23			
002	0 1.0MW2	H05V-K SW	-X01	D03 -S1	-001 22				
002	0 1.0MW2	H05V-K SW	-X01	D04 -S1	-001 24				
005	0 1.0MW2	H05V-K SW	-X01	B02 -S1	-00 51 -S1	-00 63			
005	0 1.0MW2	H05V-K SW	-X01	B03 -S1	-00 52				
005	0 1.0MW2	H05V-K SW	-X01	B04 -S1	-00 64				
005	0 1.0MW2	H05V-K SW	-X01	B13 -S42	-00 11				
005	0 1.0MW2	H05V-K SW	-X01	B14 -S42	-00 14				
005	0 1.0MW2	H05V-K SW	-X01	B15 -S25	-00 11				
005	0 1.0MW2	H05V-K SW	-X01	B16 -S25	-00 14				
005	0 1.0MW2	H05V-K SW	-X01	C05 -S1	-001 31				
005	0 1.0MW2	H05V-K SW	-X01	C06 -S1	-001 32				
005	0 1.0MW2	H05V-K SW	-X01	D07 -S1	-001 33				
005	0 1.0MW2	H05V-K SW	-X01	D08 -S1	-001 34				
R01	0 1.0MW2	H05V-K SW	-S1	-00 239 -S41	-00 12				
R01	0 1.0MW2	H05V-K SW	-X01	A10 -S41	-00 11				
R01	0 1.0MW2	H05V-K SW	-X01	A11 -S1	-00 230				
V01	0 1.0MW2	H05V-K SW	-X01	A07 -S24	-00 11				

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CROSS CONNECT - LIST	50.3023.01-A4-741-407	VI=L03
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	SWITCHING TRUCK		+S3
01	Approval	30.06.2005	Hse	Checked	Grohmann		PANEL		
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:		
							03	D009781.01.603-3.AHA	56Sh.
							03	MOTOR FEEDER	56Sh.

Copyright as per DIN 34 to be observed!

07.12.2006  
HJ0115ME  
=L03+S3  
ADAM

D00978101



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

003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 <b>AREVA</b>	PLUG DIAGRAM CIRCUIT-BREAKER PANEL	50_3023_01-44-741407		V = L03	
002	FACT. -REV.	30.10.2005	BL	Drawn	Hönicke	50_3023_01			Type: 03		/ S01	
001	Approval	30.05.2005	lha	Check	Grohmann	SUBSTATION T81			MOTOR FEEDER		Sheet 56	
NO.	Alteration	Date	Name	Sld.	Date	Iss. for	iss.by:	03	D009781.01_603-3_AHA		5650.	