

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 T80

MOTOR FEEDER
CIRCUIT DIAGRAM

A = L03

/ A01

D009781.02. 603-3.AHA

50.3023.01.A3.741 .225
COVER SHEET
PANEL
03

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

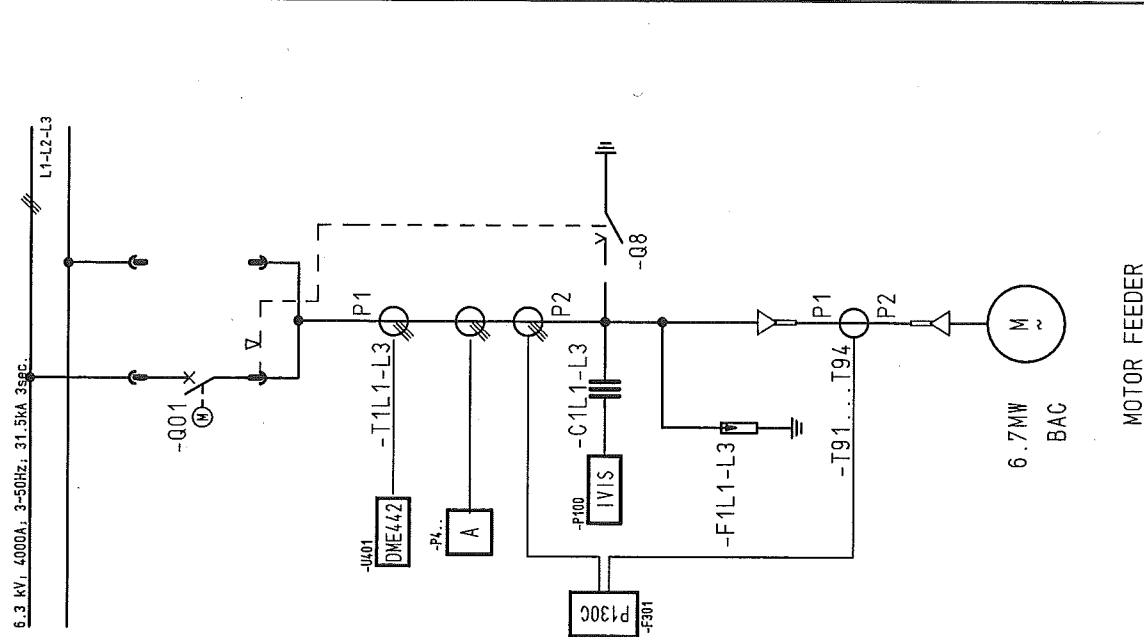
22.12.2006 HJ0115MD
=L03
A01
ADAM

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

FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-08 -001, -002		-001, -002	
STATUS SIGNAL	-001, -002, -08		-001, -002, -08	
MEASUREMENT	I (L1-L3)		I (L2), U(L1-L2) P (P2), Q(Q2)	
PROTECTION	MLCOM P130C 27, 32, 46, 48, 49, 50P, 50N, 50BF, 51, 51N, 59, 59N, 66, 67, 67N, 79, 810 81U, 86			
METERING				

[illegible]

DESIGN	MANUFACT	TYPE	RATIO	VDE	REMARKS
-T1L1	AEG	CT12	750/1/1/1A	C1: cl. 0.2F55 15VA	
-T1L2	AEG	CT12	750/1/1/1A	C2: cl. 1F55 15VA	
-T1L3	AEG	CT12	750/1/1/1A	C3: cl. 10P10 15VA	
-T91	AEG	RKT 250/160 Gr. 3	60/1A	C1: cl. 3F55 1.2VA	
-T92	AEG	RKT 250/160 Gr. 3	60/1A	C1: cl. 3F55 1.2VA	
-T93	AEG	RKT 250/160 Gr. 3	60/1A	C1: cl. 3F55 1.2VA	
-T94	AEG	RKT 250/160 Gr. 3	60/1A	C1: cl. 3F55 1.2VA	
-F1L1	ALSTOM	HE09			OVERVOLTAGE ARRESTOR
-F1L2	ALSTOM	HE09			
-F1L3	ALSTOM	HE09			
-C1L1	AREVA	IVIS			CAP. TAPPING
-C1L2	AREVA	IVIS			
-C1L3	AREVA	IVIS			



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	
50.3023.01.A3.741	D009781.02.603-3.AHA	01 02 03	A =L03	A01	1	COVER SHEET PANEL	
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	A =L03	A02	2	CIRCUIT DIAGRAM PANEL	03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	A =L03	B01	3	Inhaltsverzeichnis PANEL	03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	A =L03	B02	4	Inhaltsverzeichnis PANEL	03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	A =L03	B03	5	Inhaltsverzeichnis PANEL	03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	A =L03	B04	6	Inhaltsverzeichnis PANEL	03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	D01	7	CIRCUIT DIAGRAM PANEL	AC-DISTRIBUTION 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	600	8	CIRCUIT DIAGRAM PANEL	CBF 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	601	9	CIRCUIT DIAGRAM PANEL	DC DISTR. 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	602	10	CIRCUIT DIAGRAM PANEL	RING CIRCUIT 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	L01	11	CIRCUIT DIAGRAM PANEL	CIRCUIT-BREAKER 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	M01	12	CIRCUIT DIAGRAM PANEL	CONTROL 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	M02	13	CIRCUIT DIAGRAM PANEL	CONTROL 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	M03	14	CIRCUIT DIAGRAM PANEL	CONTROL 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	M04	15	CIRCUIT DIAGRAM PANEL	CONTROL 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	M05	16	CIRCUIT DIAGRAM PANEL	CONTROL 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	N01	17	CIRCUIT DIAGRAM PANEL	ARC DETECTOR 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	N02	18	CIRCUIT DIAGRAM PANEL	ARC DETECTOR 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	P01	19	CIRCUIT DIAGRAM PANEL	INTERLOCK 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	P02	20	CIRCUIT DIAGRAM PANEL	INTERLOCK 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q01	21	CIRCUIT DIAGRAM PANEL	POSITION INDICA. 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q02	22	CIRCUIT DIAGRAM PANEL	INTERFACE 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q03	23	CIRCUIT DIAGRAM PANEL	INTERFACE 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q04	24	CIRCUIT DIAGRAM PANEL	INTERFACE 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q05	25	CIRCUIT DIAGRAM PANEL	INTERFACE 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q06	26	CIRCUIT DIAGRAM PANEL	INTERFACE 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q07	27	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	Q08	28	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	R01	29	CIRCUIT DIAGRAM PANEL	SIGNALLING 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	S01	30	CIRCUIT DIAGRAM PANEL	CURR. TRANSF. 03
50.3023.01.A3.741 .225	D009781.02.603-3.AHA	01 02 03	S =L03	S02	31	CIRCUIT DIAGRAM PANEL	CURR. TRANSF. 03

22.12.2006

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



Inhaltsverzeichnis
PANEL
03

150.3023.01.A3.741.225	A =L03	/ B01
Typ: 03	MOTOR FEEDER	D009781.02.603-3.AHA
Sheet 3		98Sh.

Copyright as per DIN 34 to be observed

CL INT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET	DESIGN
						SORT MATCHING		ITEM NO.	
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	T01	CIRCUIT DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	T02	CIRCUIT DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	V01	CIRCUIT DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	V02	CIRCUIT DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	X01	CIRCUIT DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1A1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1A10	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1A11	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1F1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1F10	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1F11	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1F2	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1H1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1K1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1K2	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1P1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1S1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z1U1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2B1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2C1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2P1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2B1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2C1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2S1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2T1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z2Y1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z3B1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z3B2	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z3S1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	S	=L03	Z3Y1	LIST OF EQUIPMENT PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	V	=L03 +S1A.R	K01	TERMINAL DIAGRAM PANEL
50.3023.01.A3.741 .225		D009781.02.603-3.AHA	01	02	03	V	=L03 +S1A.R	K02	TERMINAL DIAGRAM PANEL

Copyright as per DIN 34 to be observed

D00978102

22.12.2006

AS BUILT 06.12.2005 AD Date 06.06.2005

Fact.-Rev. 09.11.2005 AD Drawn ADAM

Approval 20.09.2005 AD Check GROHMANN

Alteration Date Name Std.

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig.

Iss.by:

Iss.for

50.3023.01.A3.741 .225

A =L03

50.3023.01.A3.741 .225

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50.3023.01.A

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CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
						SORT MATCHING		ITEM NO.							
	50.3023.01.A3.741.225	D009781.02.603-3.AHA	01	02	03	V	=L03 +S1A.R	K03	63	TERMINAL DIAGRAM PANEL	03				
	50.3023.01.A3.741.225	D009781.02.603-3.AHA	01	02	03	V	=L03 +S1A.R	K10	64	TERMINAL DIAGRAM PANEL	03				
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	50.3023.01.A3.741.225	D009781.02.603-3.AHA	01	02	03	V	=L03 +S1A.R	S40	81	PLUG DIAGRAM PANEL	03	NIEDERSPG. -SCHR. A- NIEDERSPG. -SCHR. B			
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	50.3023.01.A3.741.225	D009781.02.603-3.AHA	01	02	03	V	=L03 +S1B.R	K80	88	TERMINAL DIAGRAM PANEL	03				
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	50.3023.01.A3.741.225	D009781.02.603-3.AHA	01	02	03	V	=L03 +S1B.R	Q20	92	GROSS CONNECT. LIST PANEL	03	PANEL			
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AS BUILT 05.12.2005 AD Date 06.06.2005															
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Approval 26.06.2005 AD Check GROHMANN															
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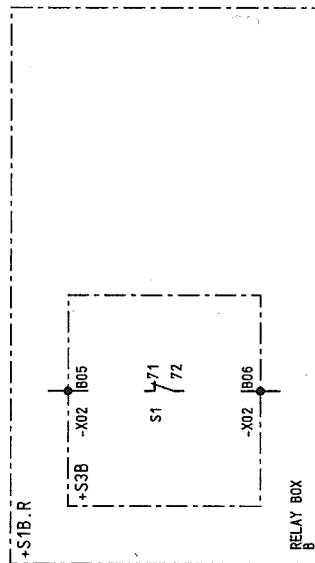
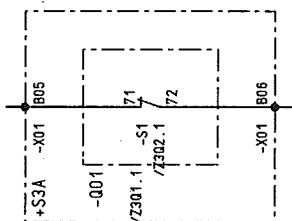
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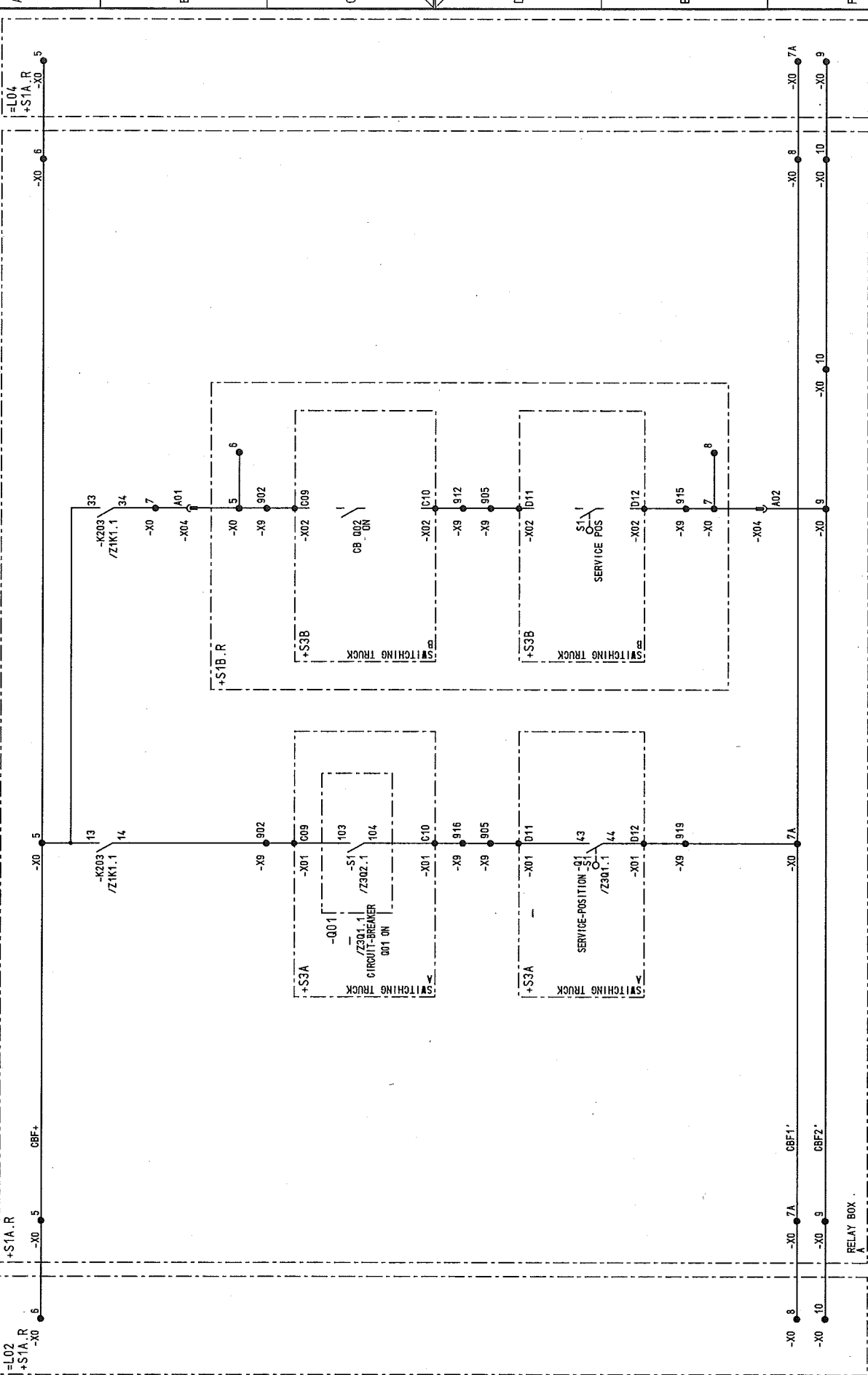
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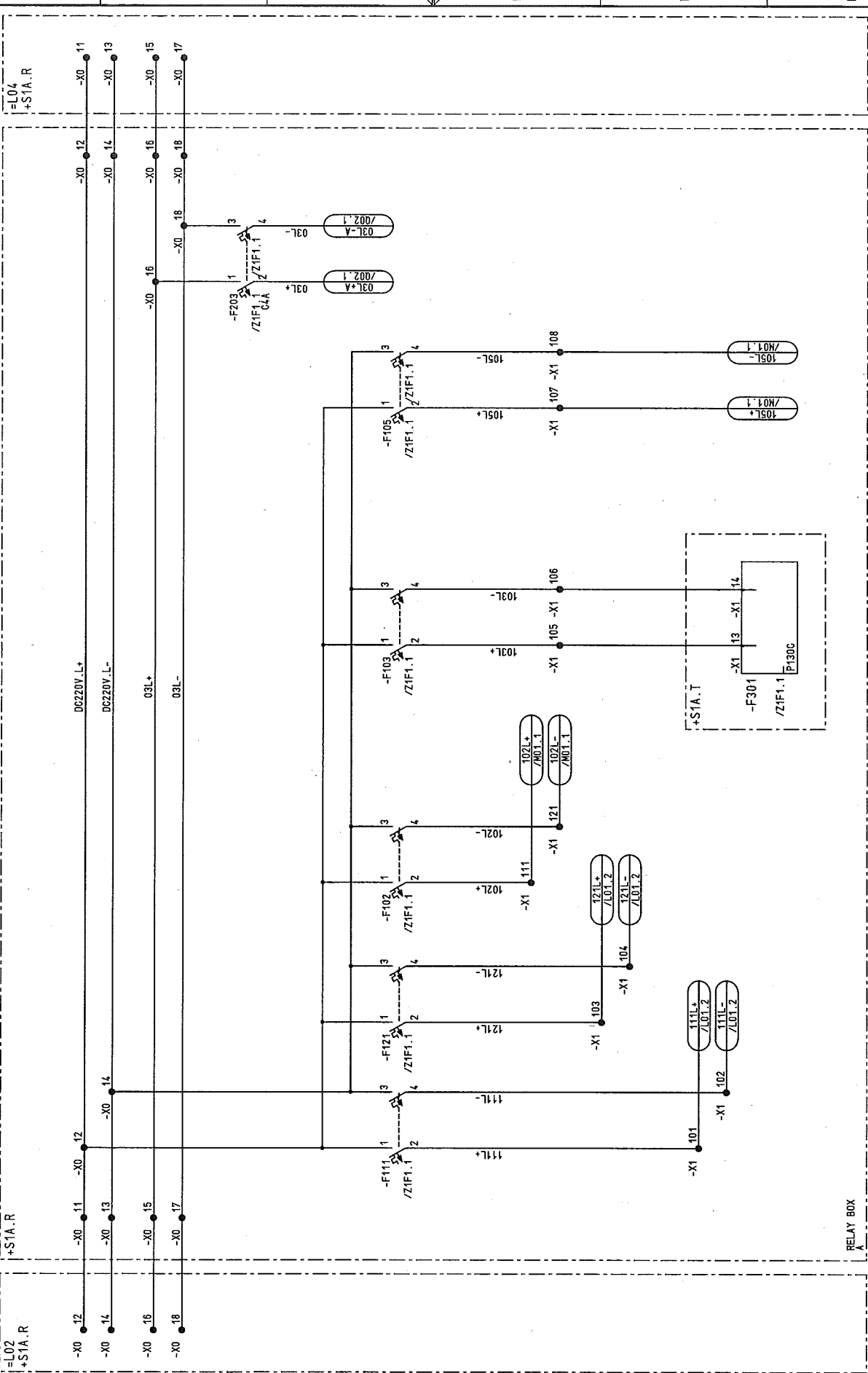
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02	Fact.-Rev.		08.11.2005	AD	Drawn	ADAM			CBF							
01	Approval		20.09.2005	AD	Checked	GROHMANN			PANEL							
NO.	Alteration		Date		Iss. for				03		MOTOR FEEDER		D009781.02.603-3.AHA		98Sh.	

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NO.	Alteration	Date	Iss. for	Iss. by:	Panel	Typ: 03	MOTOR FEEDER	D009781.02. 603-3. AHA	Sheet9	98SL
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01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80					

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NO.	Alteration	Date	Iss. for	Iss. by:	Panel	Typ: 03	MOTOR FEEDER	D009781.02. 603-3. AHA	Sheet9	98SL
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02	Fact.-Rev.	08.11.2005 AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80					



03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	CIRCUIT DIAGRAM		50.3023.01.A3.744.225	S=I03
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			
IND.	Alteration	Date	Name	Std.		Orig:		03			
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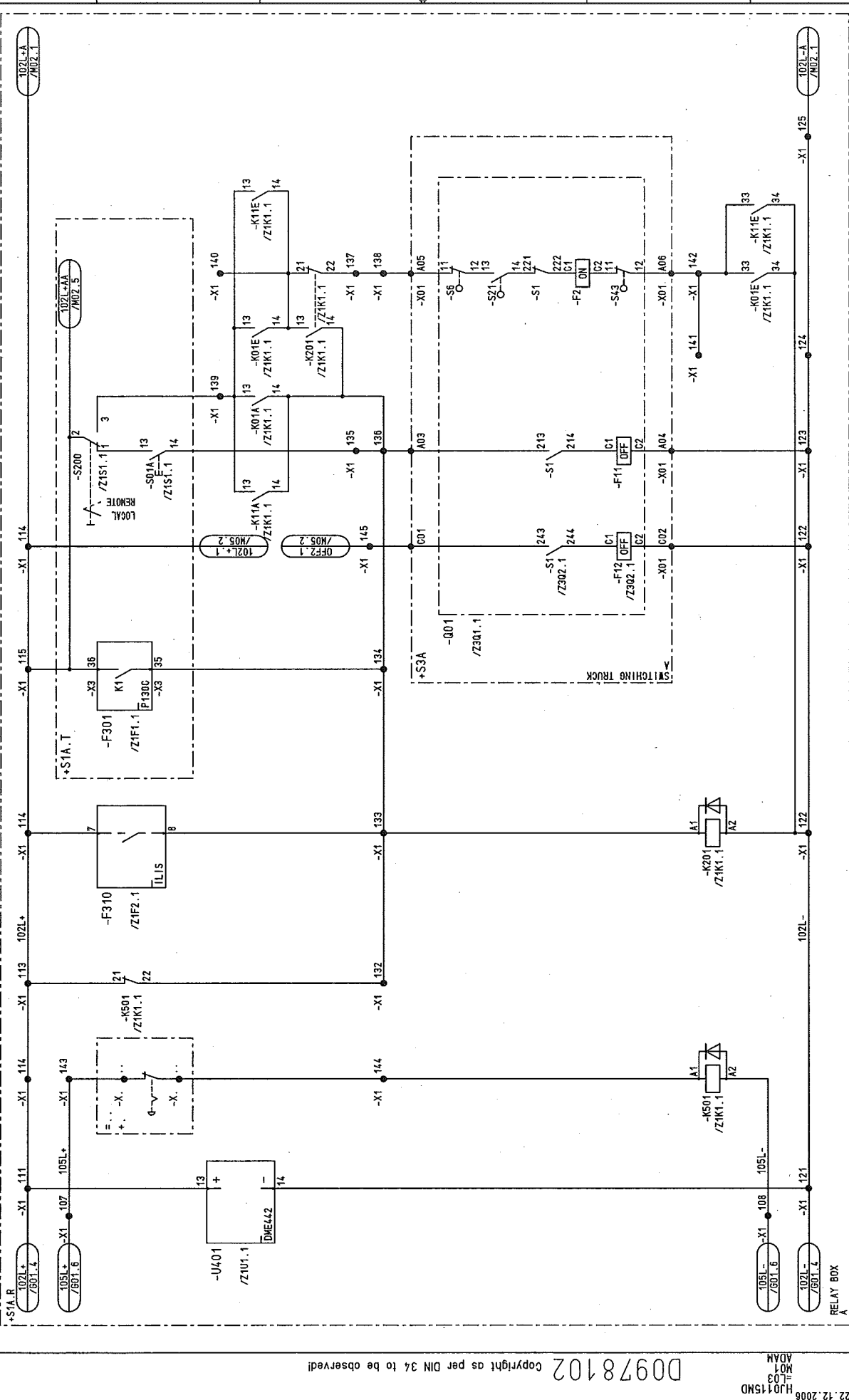


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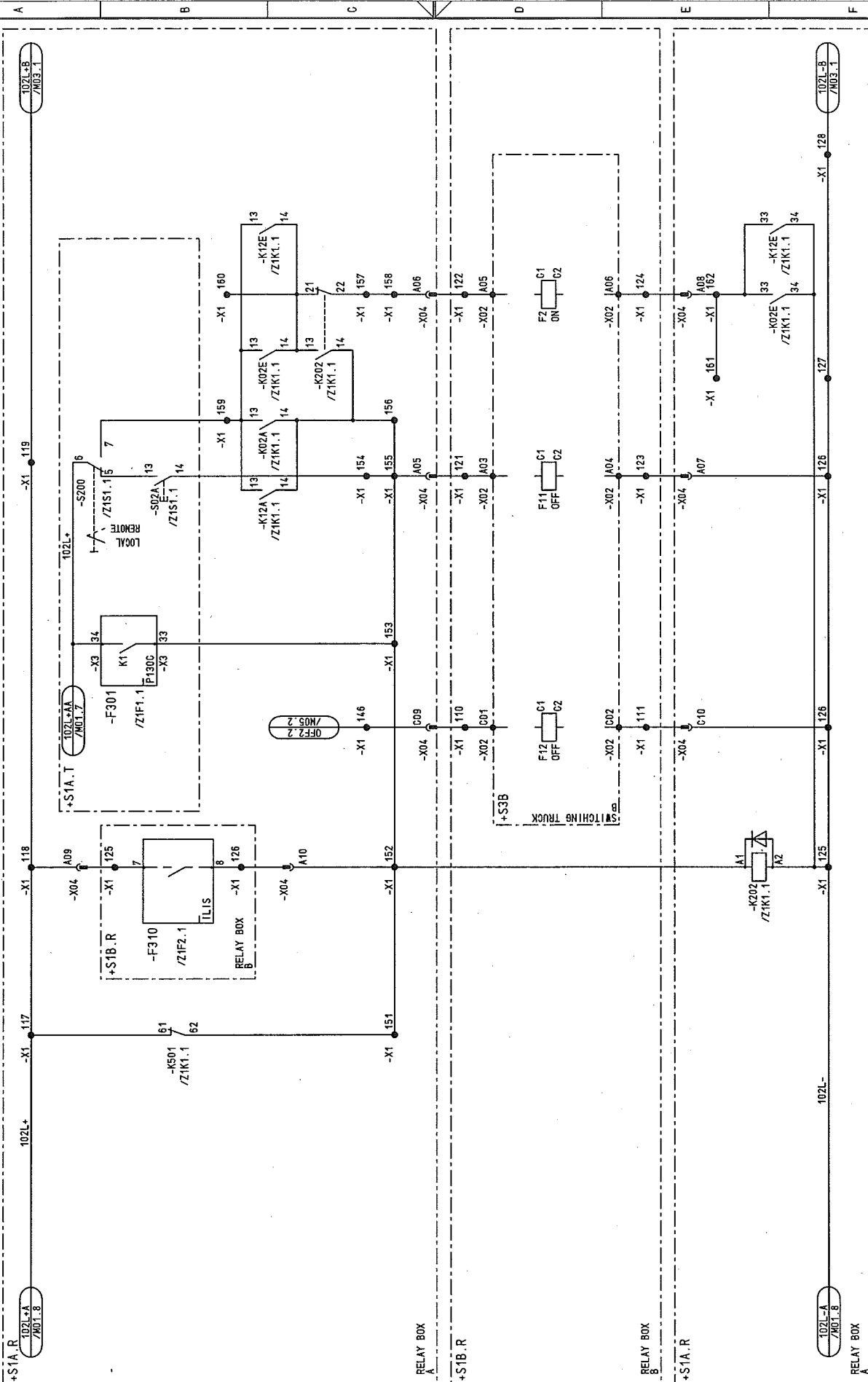
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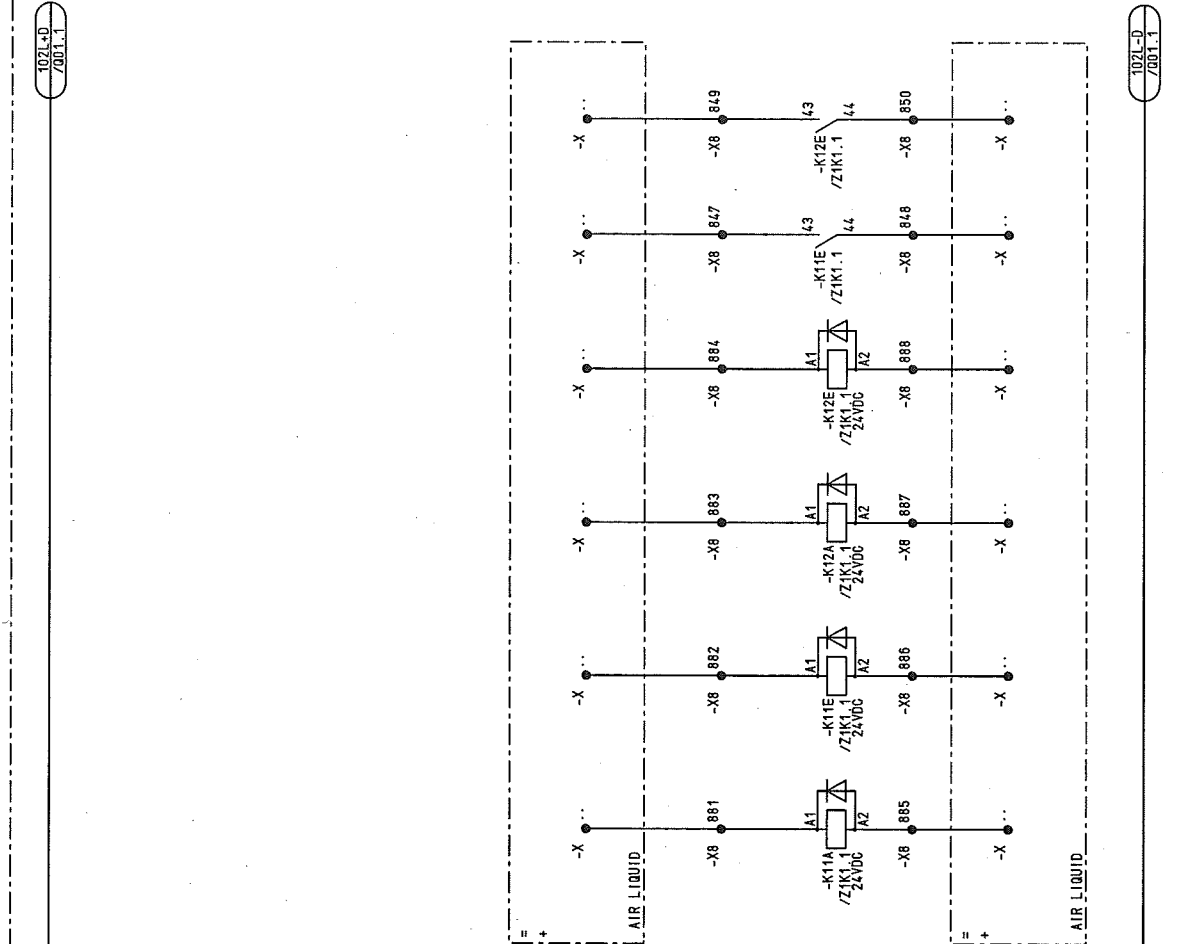
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01	Approval	26.08.2005	AD	Check	GROHMANN	SUBSTATION T60	PANEL			
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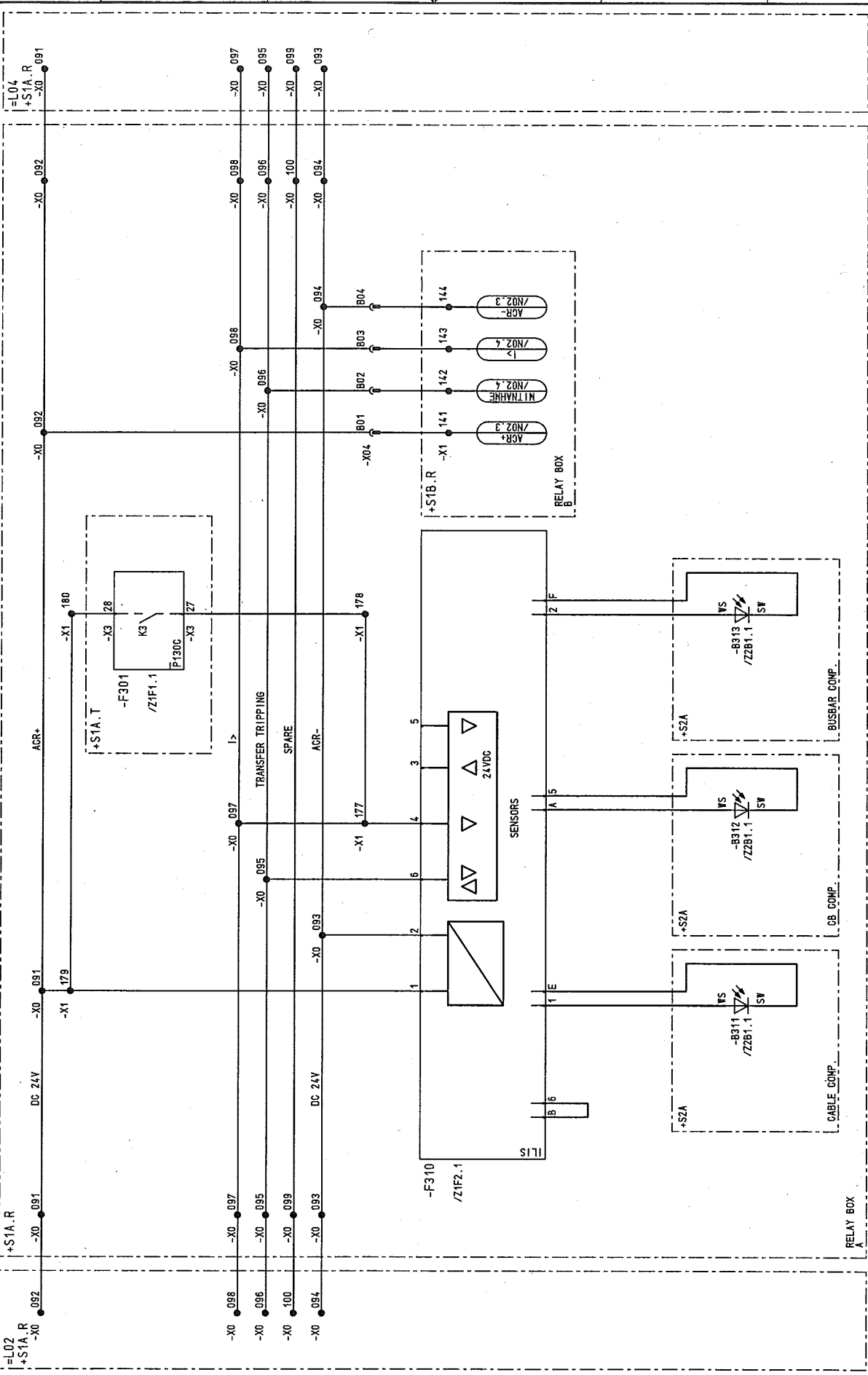




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02	Fact.-Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01		CONTROL					
01	Approval	26.09.2005	AD	Checked	GROHMANN	SUBSTATION T80		PANEL		Typ: 03		/ M04	
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	iss. by:	03		MOTOR FEEDER		Sheet 15	
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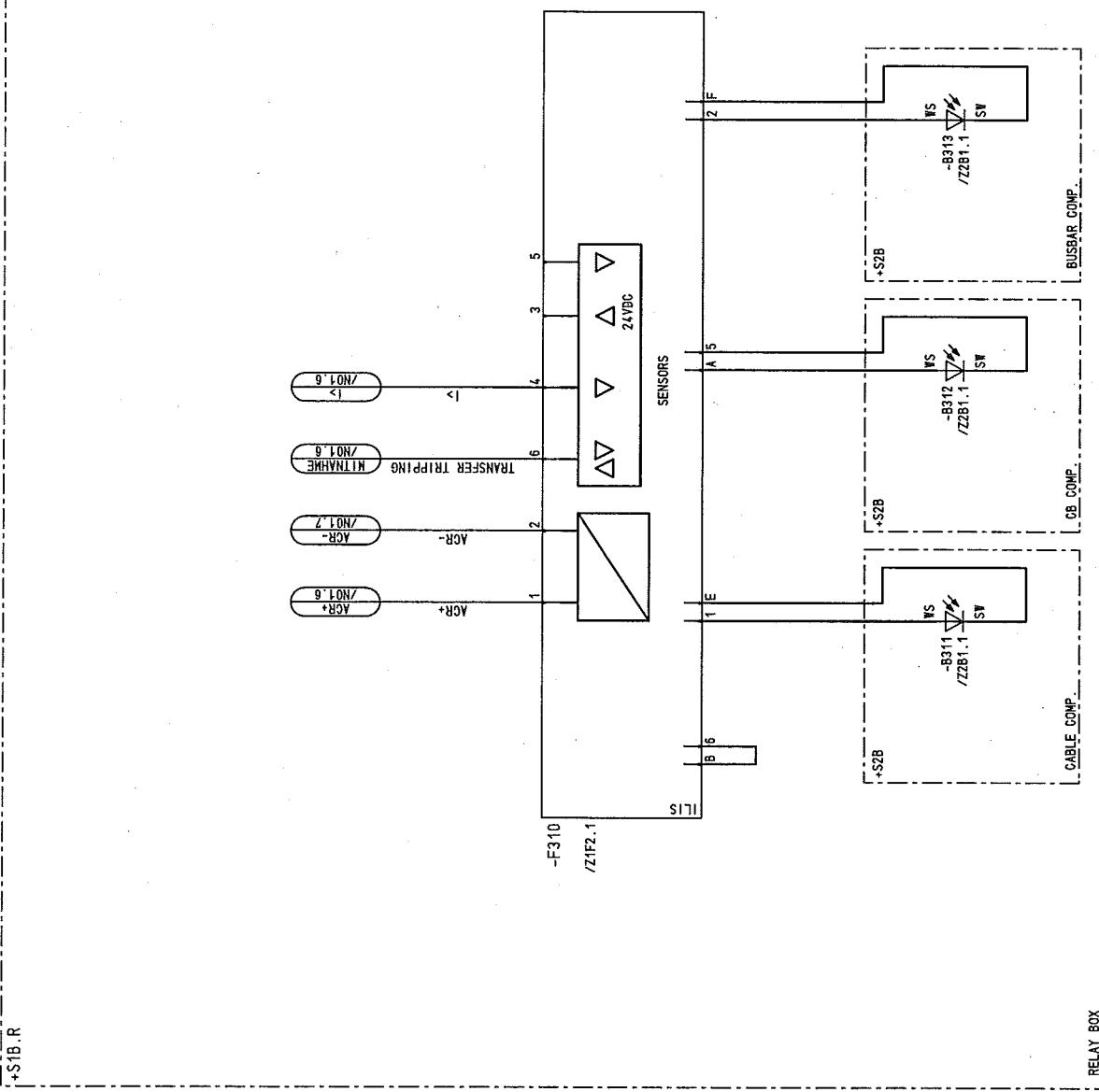


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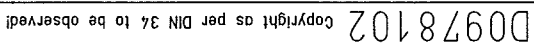
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01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			98Sh
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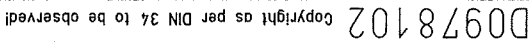


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ARC DETECTOR

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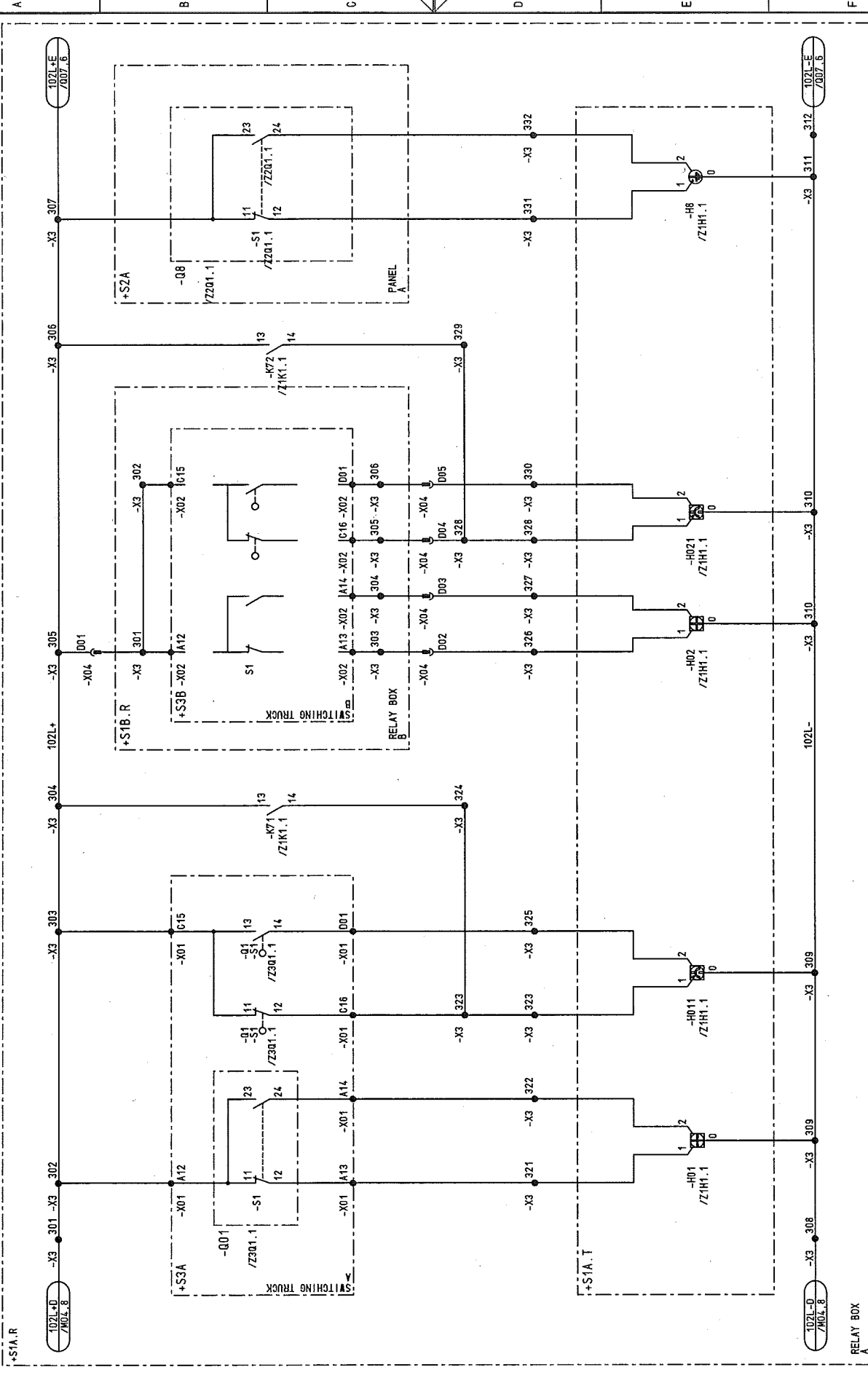


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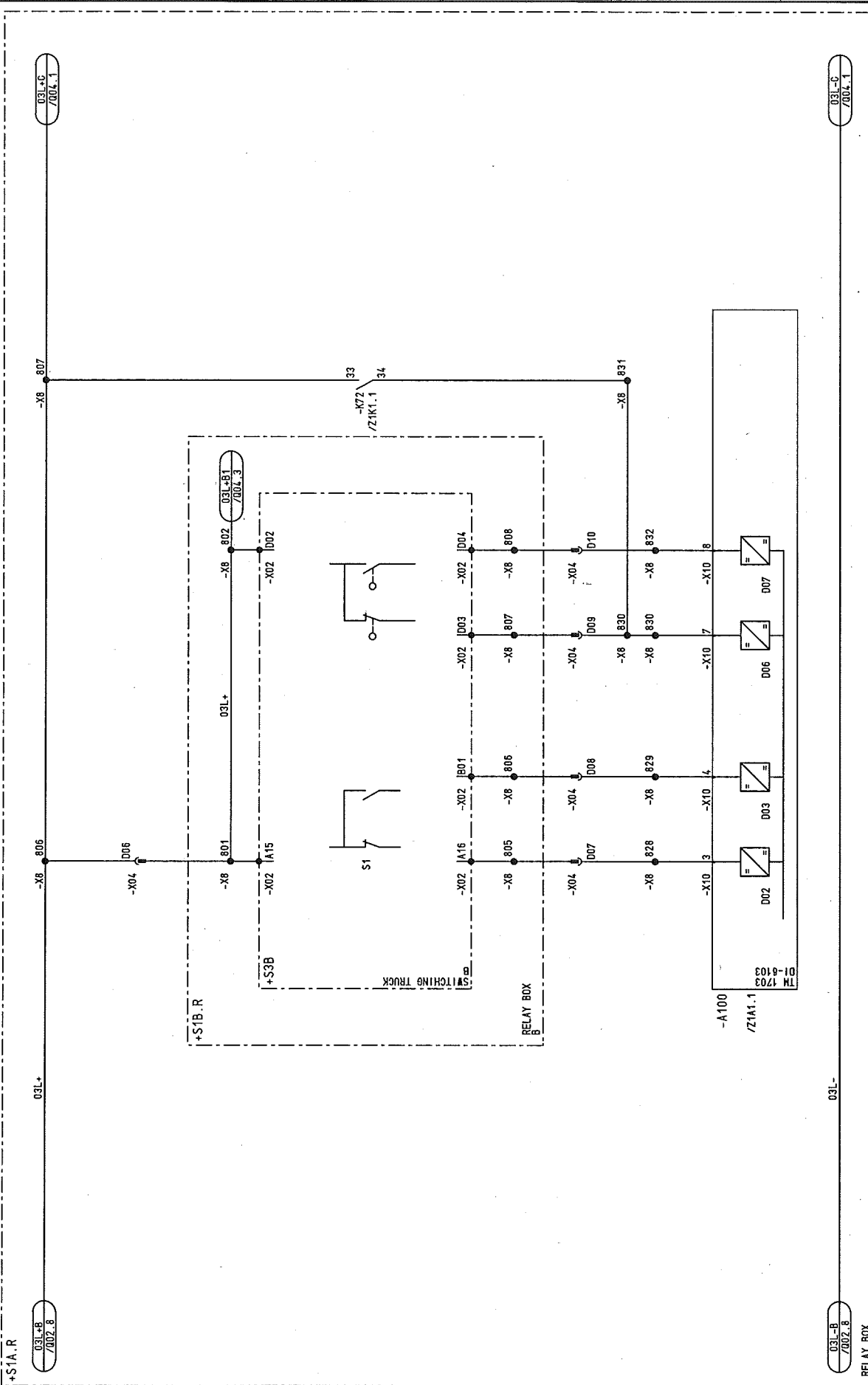


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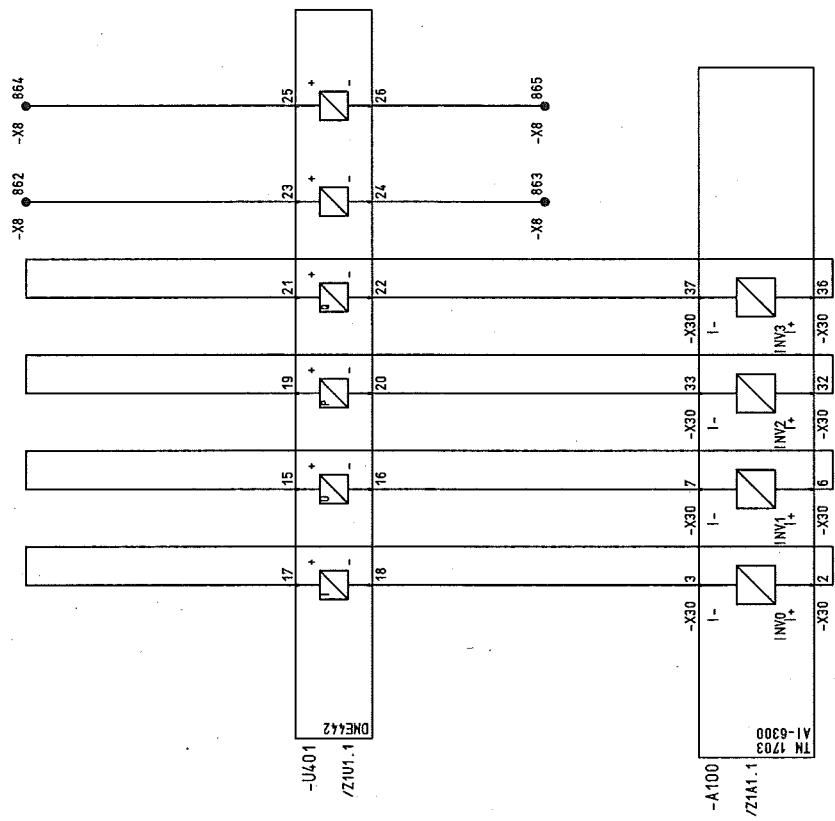
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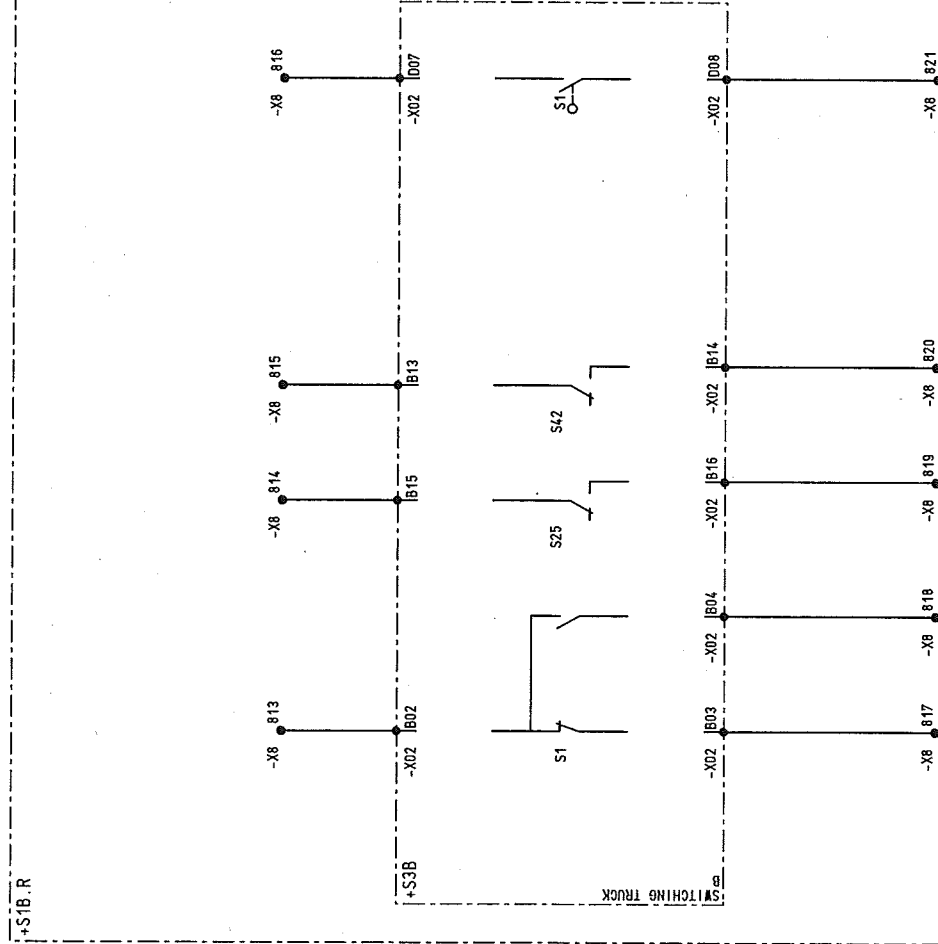
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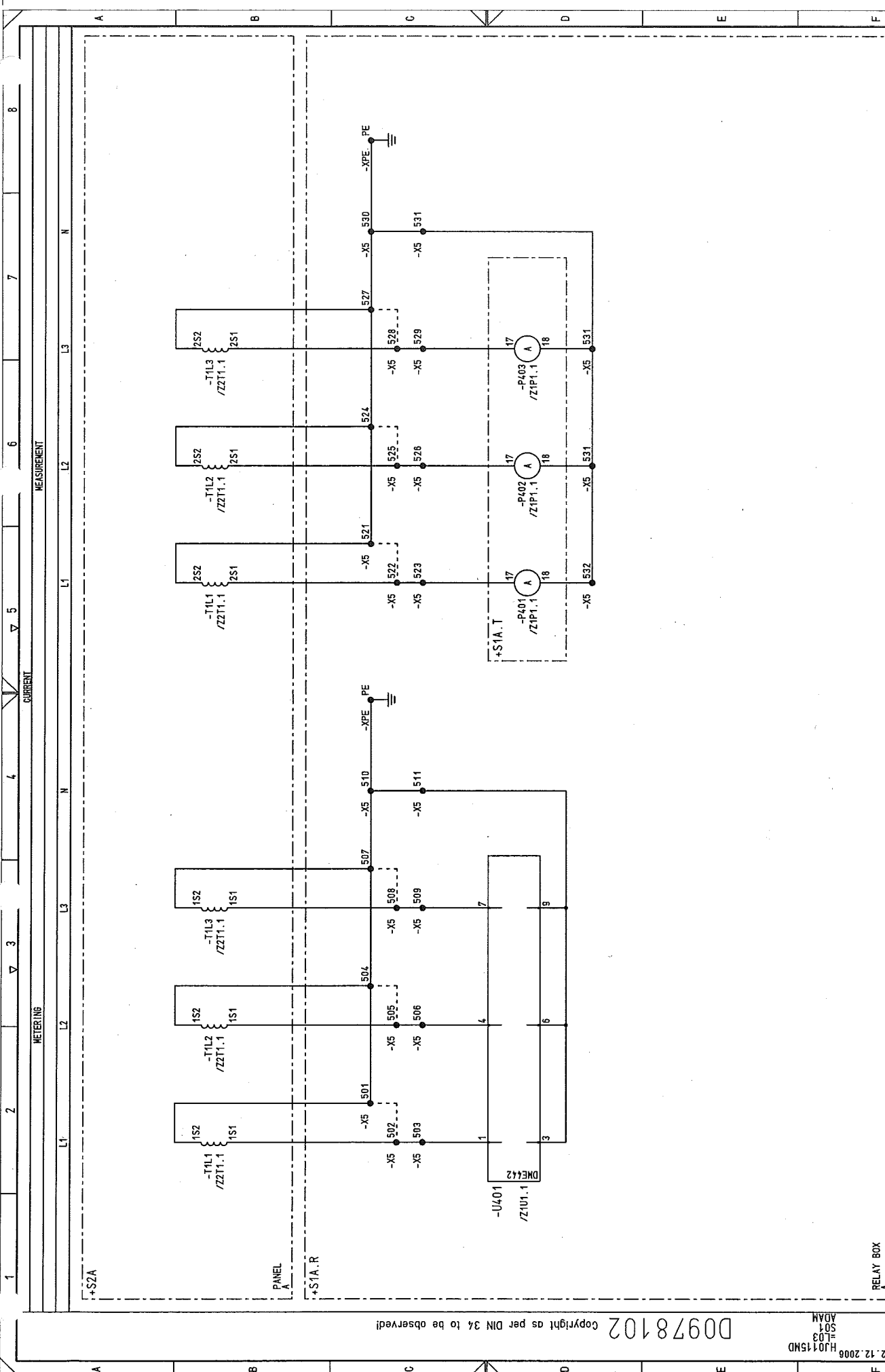
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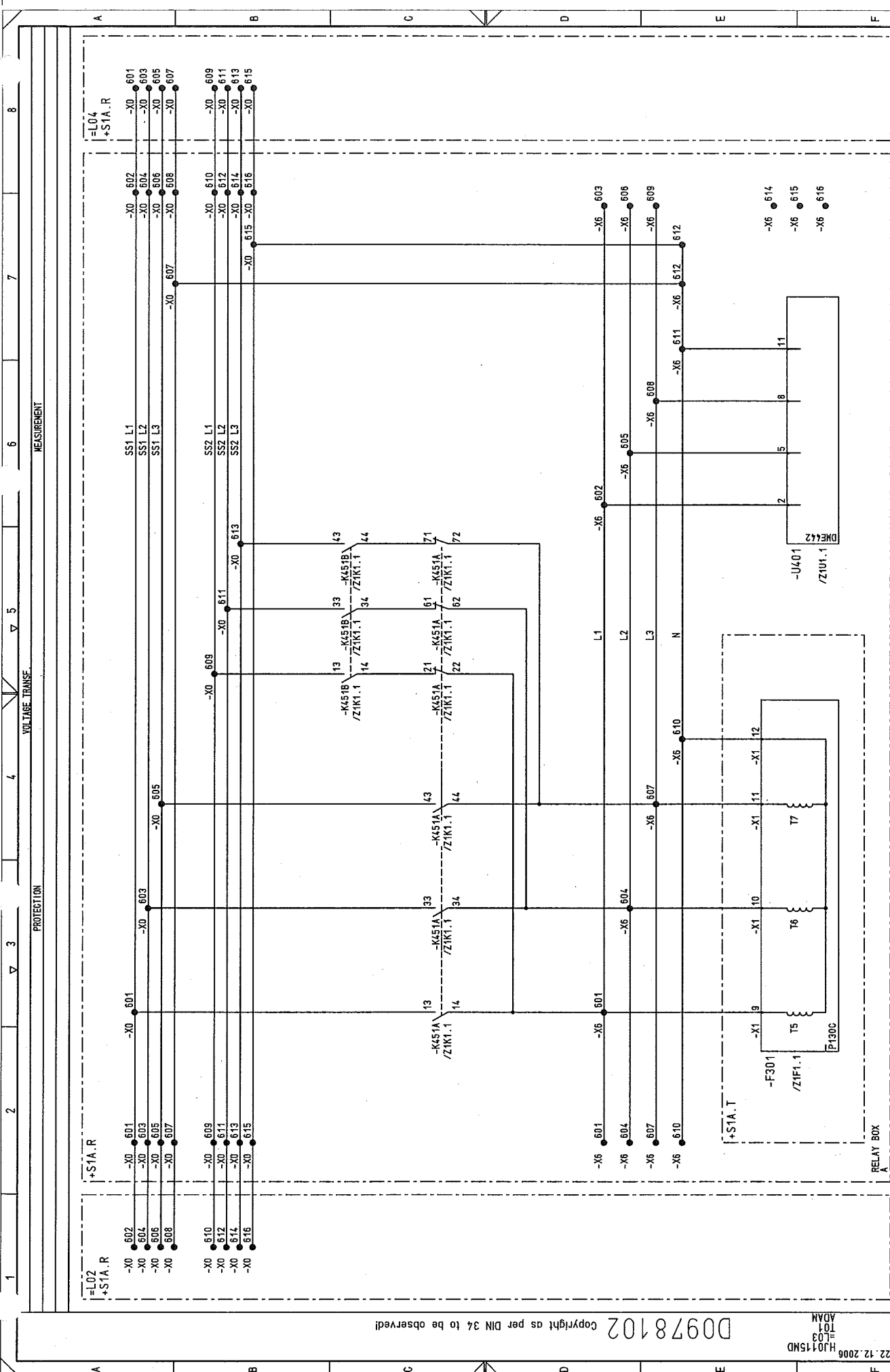
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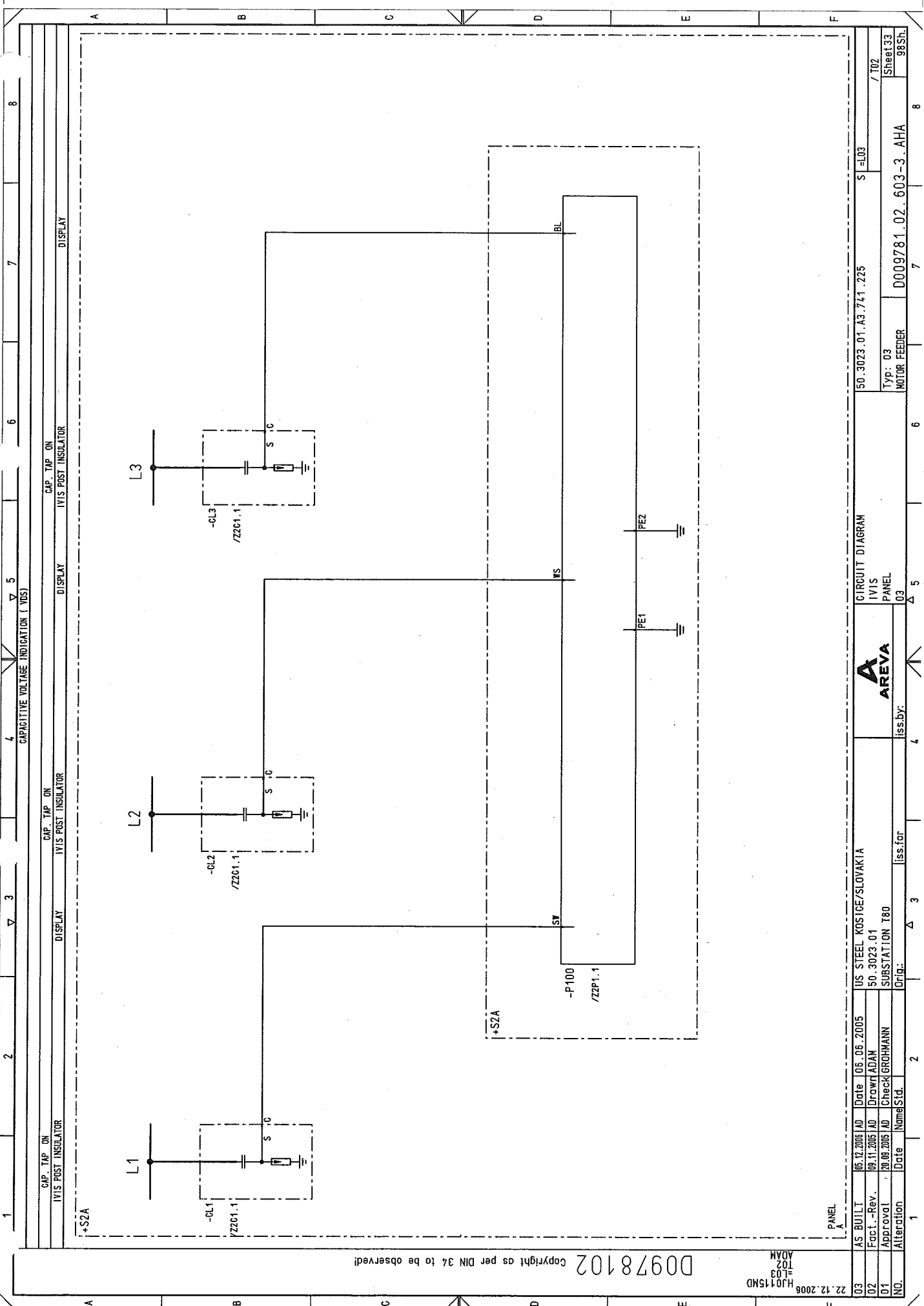


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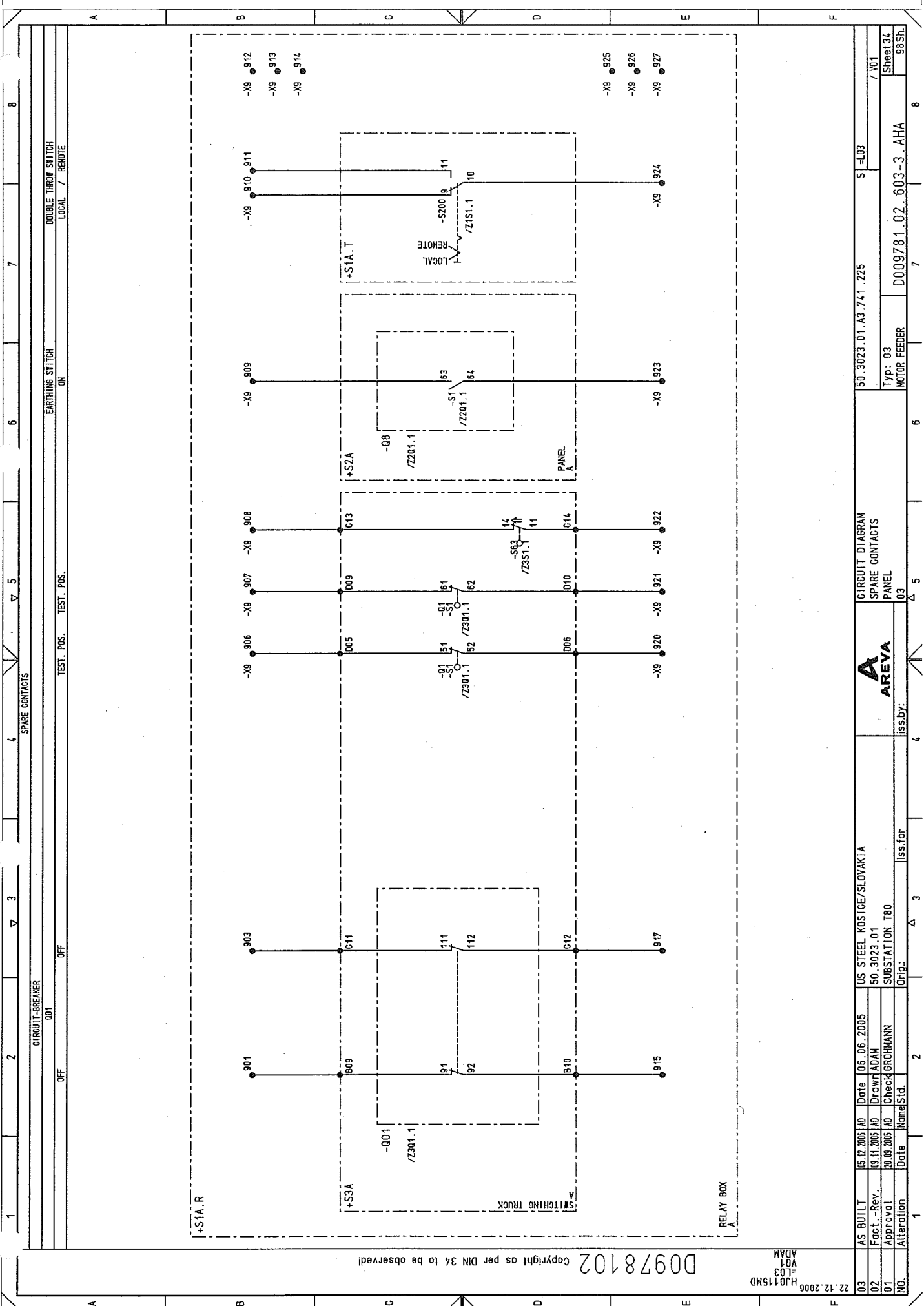


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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01.A3.741.225	S L03	/ V02
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	SPARE CONTACTS			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			Sheet 35
NO.	Alteration	Date	Name	Std.	Gr.ig.	Iss.for	Iss.by:	Typ: 03	MOTOR FEEDER	98Sh.
									D009781.02.603-3.AHA	

1

2

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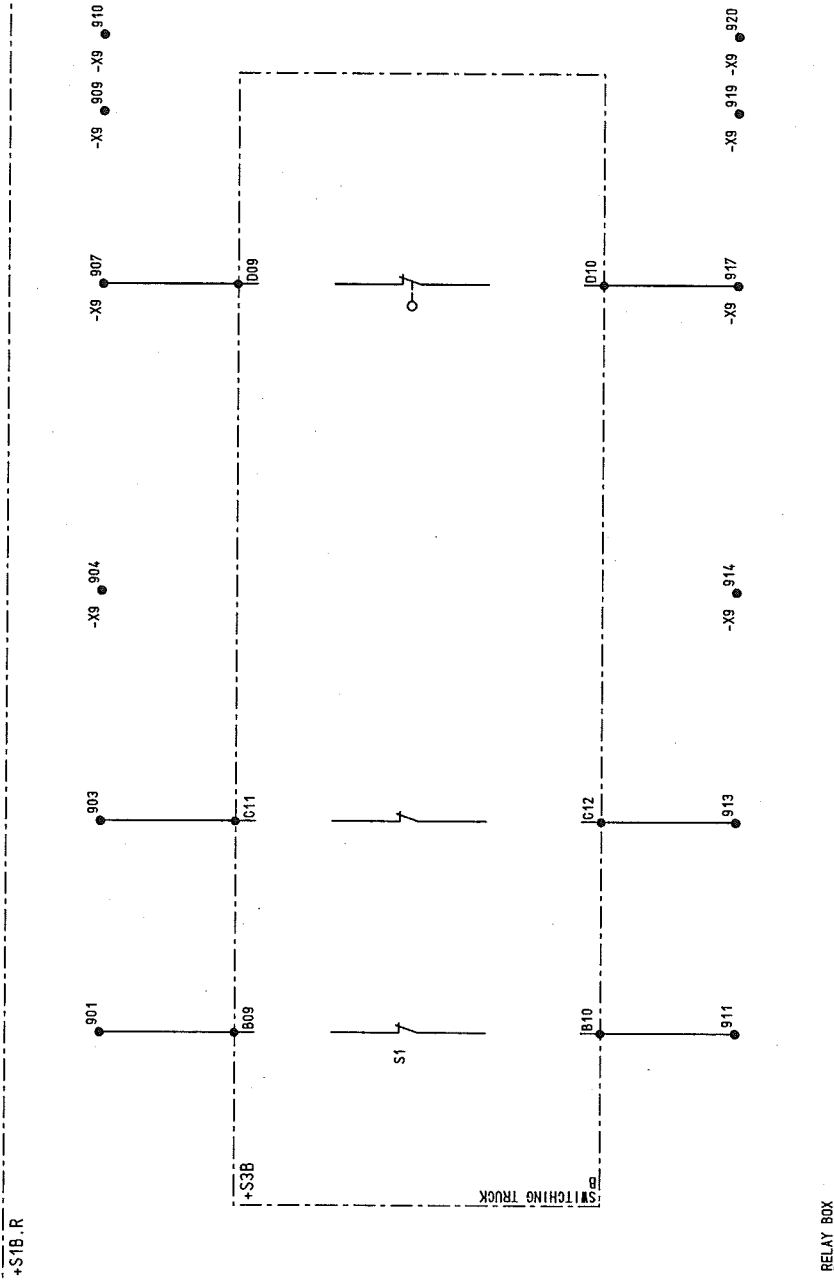
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5

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CIRCUIT-BREAKER
002

SPARE CONTACTS

8

7

6

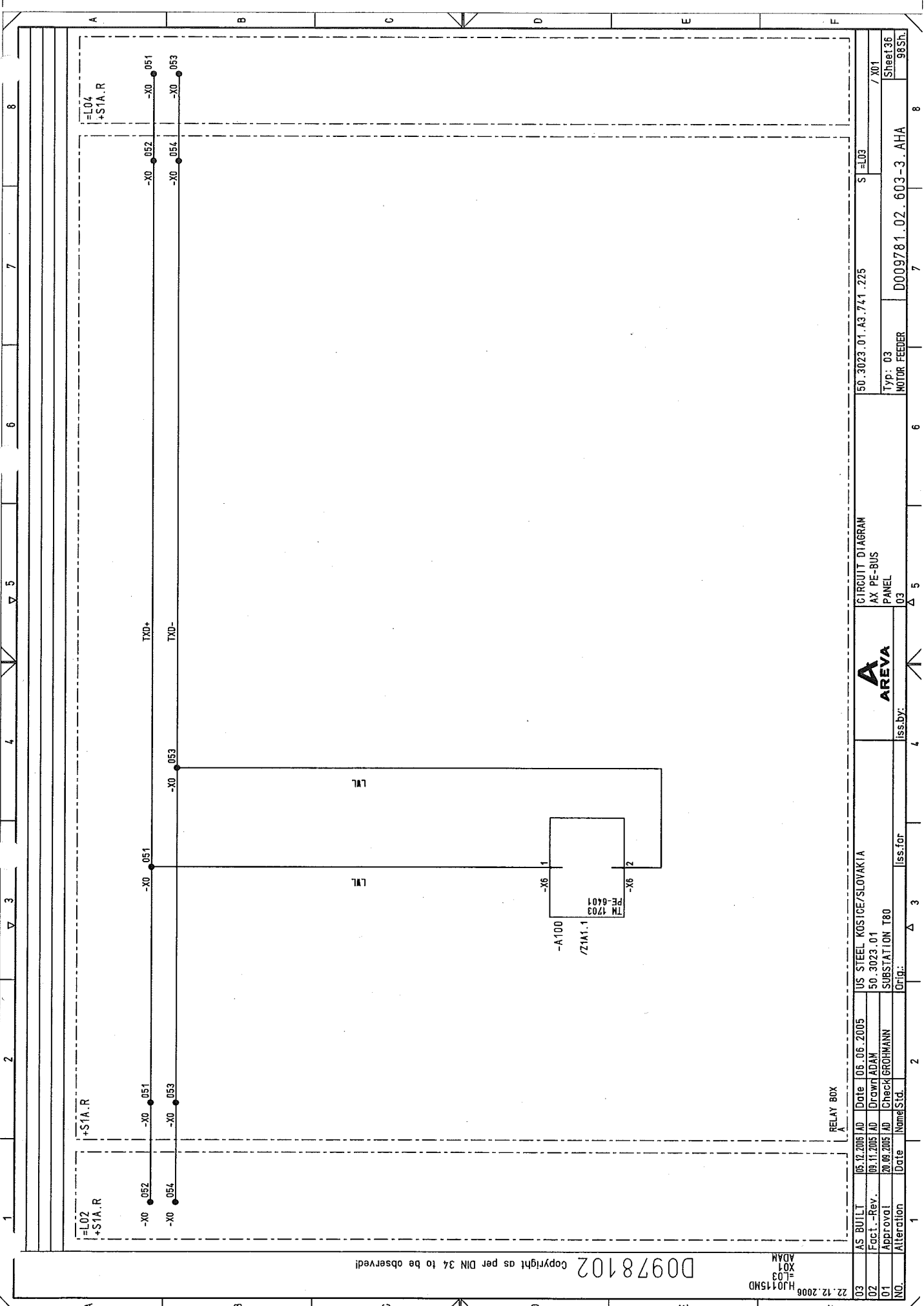
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1=L02
+S1A.R

-X0 052
-X0 051
-X0 054
-X0 053

TX0+
TX0-

LRL

LRL

-X6 1
-X6 2
-X6 3
TM 4703
PE-6401
/Z1A1.1
-A100

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03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01.A3.741.225	S1 L03	/ X01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM				
01	Approval	20.09.2005	AD	Check	GROHMANN				
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Typ: 03 MOTOR FEEDER	D009781.02.603-3.AHA	Sheet 36 98Sh.

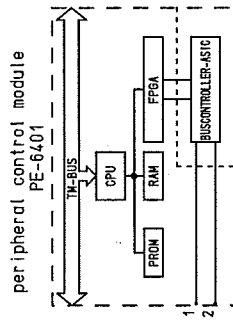
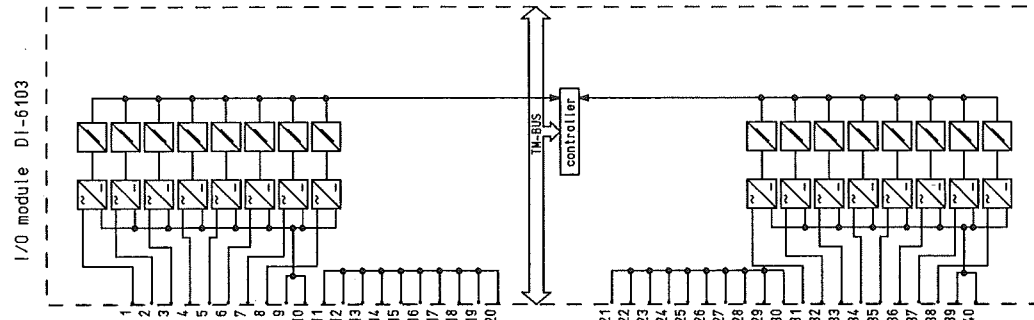
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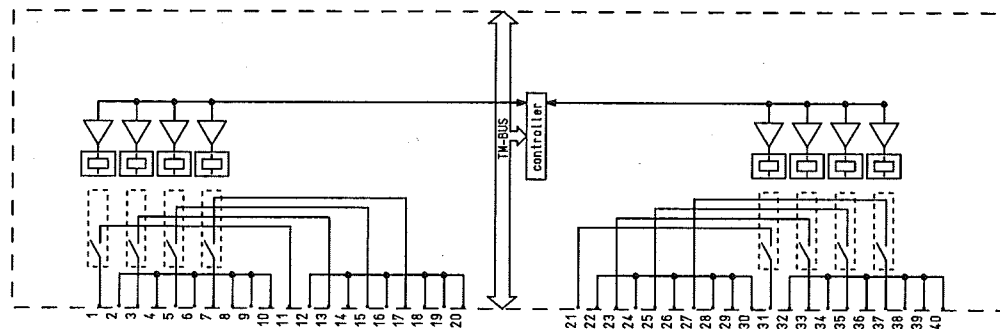
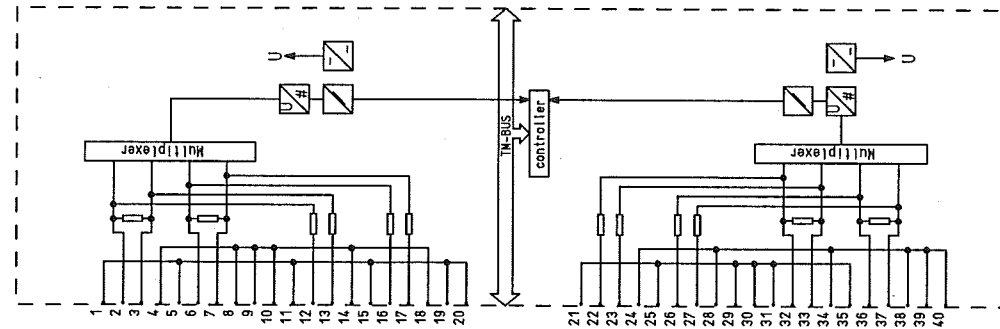
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Ax PE-Bus	/X01.3

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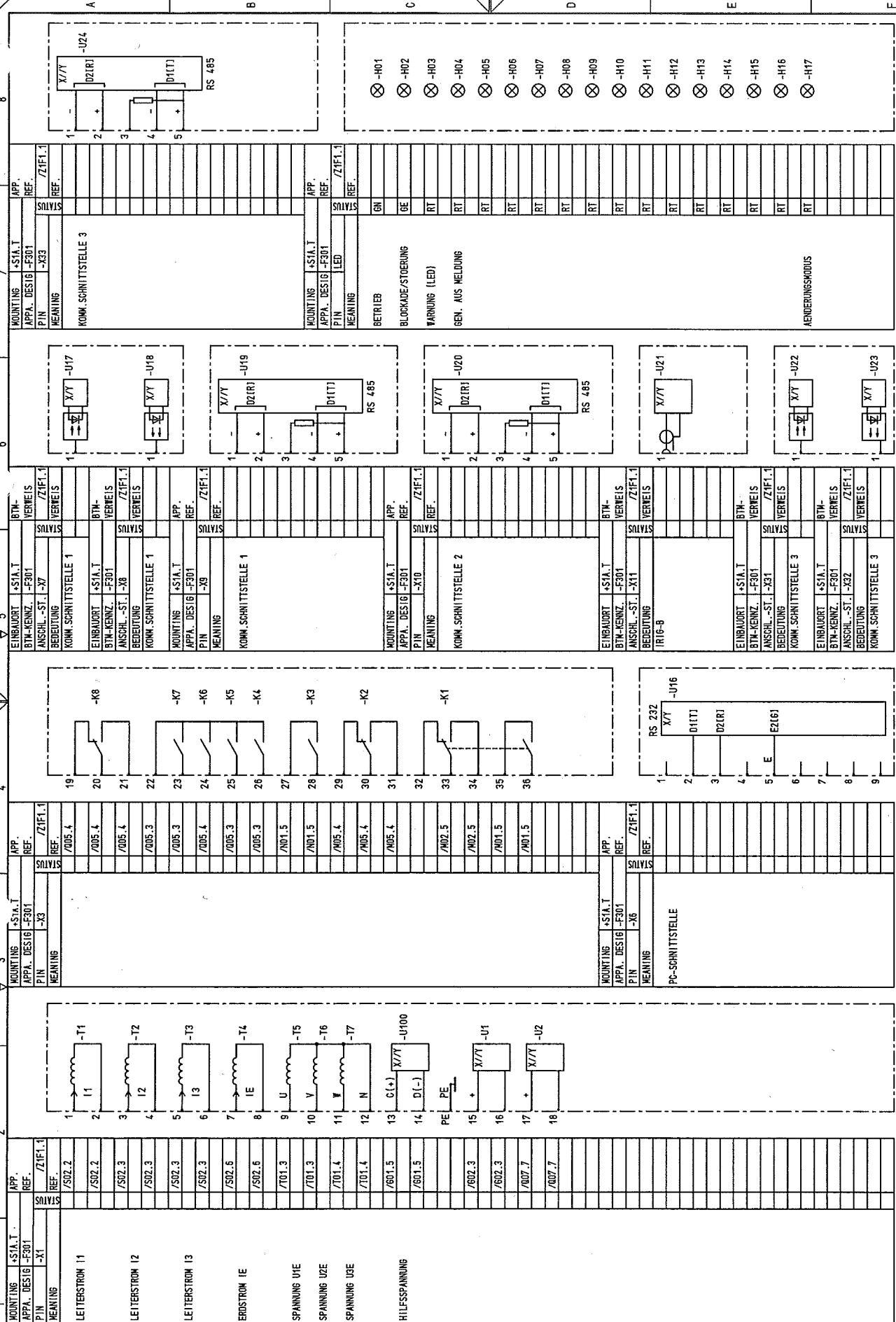
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Typ: 03		Sheet 38
MOTOR FEEDER	D009781.02.603-3.AHA	98Sh.



E/SLOVAKIA		LIST OF EQUIPMENT
		PANEL
	Iss. for	03
	Iss. by:	

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	A AREVA	LIST OF EQUIPMENT		50.3023.01.A3.741.225	S =L03	/ ZIF1	
02	Fact.-Rev.	09.11.2005	AD	Drawn ADAM		50.3023.01							
01	Approval	20.03.2005	AD	Check BROHMANN		SUBSTATION T80		PANEL	Typ: 03	MOTOR FEEDER	D009781.02.603-3.AHA	Sheet 40	98Sh.
NO:	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:	03				

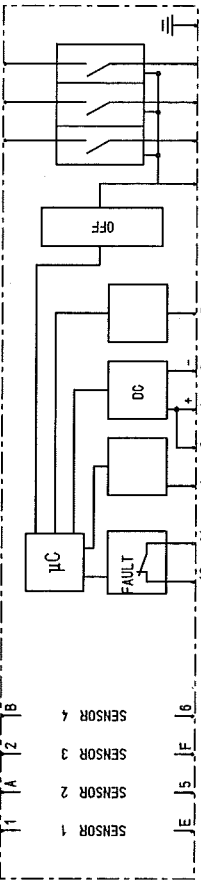
Copyright as per DIN 34 to be observed!



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02	Fact.-Rev.	09.11.2005	AD	Date	01.01.2006	Drawn: ADAM	PANEL	Typ: 03			Sheet 4.1
01	Approval	20.09.2005	AD	Date	01.01.2006	Check: GROHMANN	03	MOTOR FEEDER			98 Sh.
NO.	Alteration			Date		Orig:		D009781.02.603-3.AHA			

GEHÄUSE	PE
SCHUTZERDUNG	

NO.	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT	50.3023.01.A3.74.1.225	S =L03	/ ZHF11	Sheet 12 98Sh.				
	Fact. -Rev.	09.11.2005	AD	Drawn	ADAH	50.3023.01										
	Approval	20.09.2005	AD	Check	GRUHMANN	SUBSTATION T80										
	Alteration	Date	Name	Sid.	Orig.	Iss. for							Iss. by:	03	Typ.: 03 MOTOR FEEDER	D009781.02.603-3.AHA
	NO.															

1		2		3		4		5		6		7		8					
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS		MOUNTING		APPA. DESIG.		APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)								REMARK			
2		ARC DETECTOR DC 24V		TYPE ILS															
		TECHNICAL COMPONENTS		TYP		ORDER NO													
		APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER											
		ARC DETECTOR				*S1A.R		-F310											
		ARC DETECTOR				*S1B.R		-F310											

1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APP. DESIG.	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS	REMARK
1	STELLUNGSMELDER RUECKMELDER	MANUF.: messMg PO NO.: EST-L-1746-08-330-21 TRENSCHALTER	TYPE EST-L				
	TECHNICAL COMPONENTS	TYP					
	: 220VAC/220VDC						
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	CIRCUIT-BREAKER	ON/OFF	+SIA.T	-H01			
	CIRCUIT-BREAKER	ON/OFF	+SIA.T	-H02	/001.2		
					/001.5		
2	STELLUNGSMELDER RUECKMELDER	MANUF.: messMg PO NO.: EST-L-1746-08-231-21 SCHALTWAGEN	TYPE EST-L				
	TECHNICAL COMPONENTS	TYP					
	: 220VAC/220VDC						
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	SWITCHING TRUCK	SERVICE POS. TEST POS.	+SIA.T	-H011	/001.3		
	SWITCHING TRUCK	SERVICE POS. TEST POS.	+SIA.T	-H021	/001.6		
1	STELLUNGSMELDER RUECKMELDER	MANUF.: messMg PO NO.: EST-L-1746-08-131-21 ERDER	TYPE EST-L				
	TECHNICAL COMPONENTS	TYP					
	: 220VAC/220VDC						
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	EARTHING SWITCH	OFF/ON	+SIA.T	-H8	/001.7		

03	AS BUILT	05.12.2006 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	50.3023.01.A3.741.225	S-L03	/ZHH
02	Fact.-Rev.	05.11.2005 AD	Drawn	ADAM					
01	Approval	20.08.2005 AD	Check	GROHMANN	SUBSTATION T80				
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for	Iss.by:		

Typ: 03	MOTOR FEEDER	D009781.02.603-3.AHA	98Sh
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LIST OF EQUIPMENT	PANEL	03
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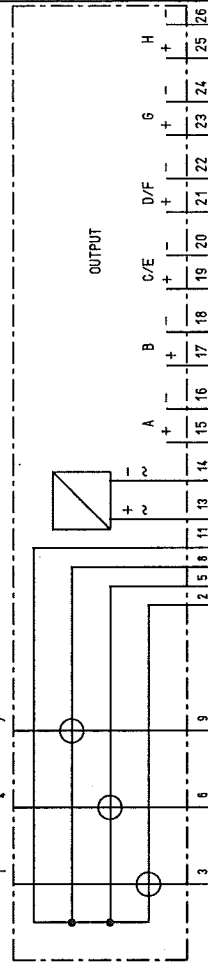
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02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01			PANEL			
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				Type: 03		Sheet 46
NO.	Alteration	Date	Name	Std.		Orig.	iss. for	iss. by:	03	MOTOR FEEDER	D009781_02_603-3_AHA	98sh.

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02	Fact.-Rev.	09.11.2005 AD	Drawn ADAM	50_3023_01							
01	Approval	20.09.2005 AD	Checked GROHMANN	SUBSTATION T80							
00	Alteration	Date	Name Std.	Orig.	iss. for	iss. by:	PANEL 03	Typ: 03	MOTOR FEEDER	D009781.02..603-3_AHA	98Sh.
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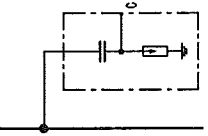
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1		TRANSDUCER		MANUF.: GOSSEN PO NO.:		TYPE SINEAX DME424/442									
PROGRAMMIERBARER MULTI-MESSUMFORMER															
INPUT TECHNICAL COMPONENTS		OUTPUT TYP													
APPLICATION MULTIFUNCTION		CONVERTER		SETTINGS		MOUNTING *STA.R		SYM IDENTIFIER -U401							

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.225	S1 L03	7 Z1U1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 03	MOTOR FEEDER	Sheet 149
NO.	Alteration	Date	Name	Std.	2	Iss. for	Iss. by:	D009781.02.603-3.AHA	98Sh.	8

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	<div></div> AREVA	LIST OF EQUIPMENT		50.3023.01.A3.74.1.225		S=L03	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		PANEL		Typ: 03		Sheet 50 / Z28f	
01	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION 180		03		MOTOR FEEDER		D009781.02.603-3.AHA	
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:					98St.		
						Orig.:					7		

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1	2	3	4	5	6	7	8
STOCK- TITY	DESCRIPTION, DESIGN, APPLICATION	TECHNICAL DATA SETTINGS	MANUFACTURER, TYPE, MOUNTING	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
3	IVIS POST INSULATOR	MANUF.: AREVA/SW PO NO.:	TYPE IVIS				
TECHNICAL COMPONENTS							
		TYP	ORDER NO				
		APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER		
		CAP. TAPPING	*SZA	*SZA	-CL1	/T02.2	
		CAP. TAPPING	*SZA	*SZA	-CL2	/T02.4	
		CAP. TAPPING	*SZA	*SZA	-CL3	/T02.5	

NO.	Alteration	Date	Name	Std.	2	3	4	5	6	7	8
03	AS BUILT	05.12.2005	AD		06.06.2005	US STEEL KOSICE/SLOVAKIA			LIST OF EQUIPMENT	50.3023.01.A3.741.225	S=L03
02	Fact.-Rev.	09.11.2005	AD		Drawn ADAM	50.3023.01					7 ZC1
01	Approval	20.09.2005	AD		Check GROHMANN	SUBSTATION T80			PANEL	Typ: 03 MOTOR FEEDER	Sheet 151 98Sh
										D009781.02.603-3.AHA	

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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_225		S =103
01	Fact.-Rev.	09.11.2005	AD	Draught ADAM	50_3023_01							/ Z201
02	Approval	20.03.2005	AD	Czech GROHMANN	SUBSTATION T80			PANEL		Typ: 03		Sheet 53
NO.	Alteration	Date	None/Std.		Orig.:	Iss.by:		03		D009781.02..603-3_AHA		98Sh.

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50.3023.01.43.741.225	S=L03	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01						
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80						
01	Alteration	Date	Name	Std.		Qr/g:	iss.for	iss.by:	PANEL	Typ: 03		
										MOTOR FEEDER		
										D009781.02.603-3.AHA		
										98Sh.		
										/ ZTS1		
										Sheet 54		

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1	2	3	4	5	6	7	8
STOCK- TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)			
3	CURR. TRANSF. 250/11/11A	MANUF.: AEG PO NO.:	TYPE CT12				
TECHNICAL COMPONENTS		TYP	ORDER NO				
APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER			
CURR. TRANSF.	L1		*S2A	-11.1			
CURR. TRANSF.	L2		*S2A	-11.2			
CURR. TRANSF.	L3		*S2A	-11.3			
4	CABLE-TYPE CT 60/1A	MANUF.: AEG PO NO.:	TYPE RKT 250/160				
TECHNICAL COMPONENTS		TYP	ORDER NO				
APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER			
CABLE-TYPE CT			*S2A	-19.1			
CABLE-TYPE CT			*S2A	-19.2			
CABLE-TYPE CT			*S2A	-19.3			
CABLE-TYPE CT			*S2A	-19.4			

P1 P2

1S1 1S2


1S1 1S2 1S3 1S4 1S5 1S6 1S7 1S8 1S9 1S10 1S11 1S12 1S13 1S14 1S15 1S16 1S17 1S18 1S19 1S20 1S21 1S22 1S23 1S24 1S25 1S26 1S27 1S28 1S29 1S30 1S31 1S32 1S33 1S34 1S35 1S36 1S37 1S38 1S39 1S40 1S41 1S42 1S43 1S44 1S45 1S46 1S47 1S48 1S49 1S50 1S51 1S52 1S53 1S54 1S55 1S56 1S57 1S58 1S59 1S60 1S61 1S62 1S63 1S64 1S65 1S66 1S67 1S68 1S69 1S70 1S71 1S72 1S73 1S74 1S75 1S76 1S77 1S78 1S79 1S80 1S81 1S82 1S83 1S84 1S85 1S86 1S87 1S88 1S89 1S90 1S91 1S92 1S93 1S94 1S95 1S96 1S97 1S98 1S99 1S100

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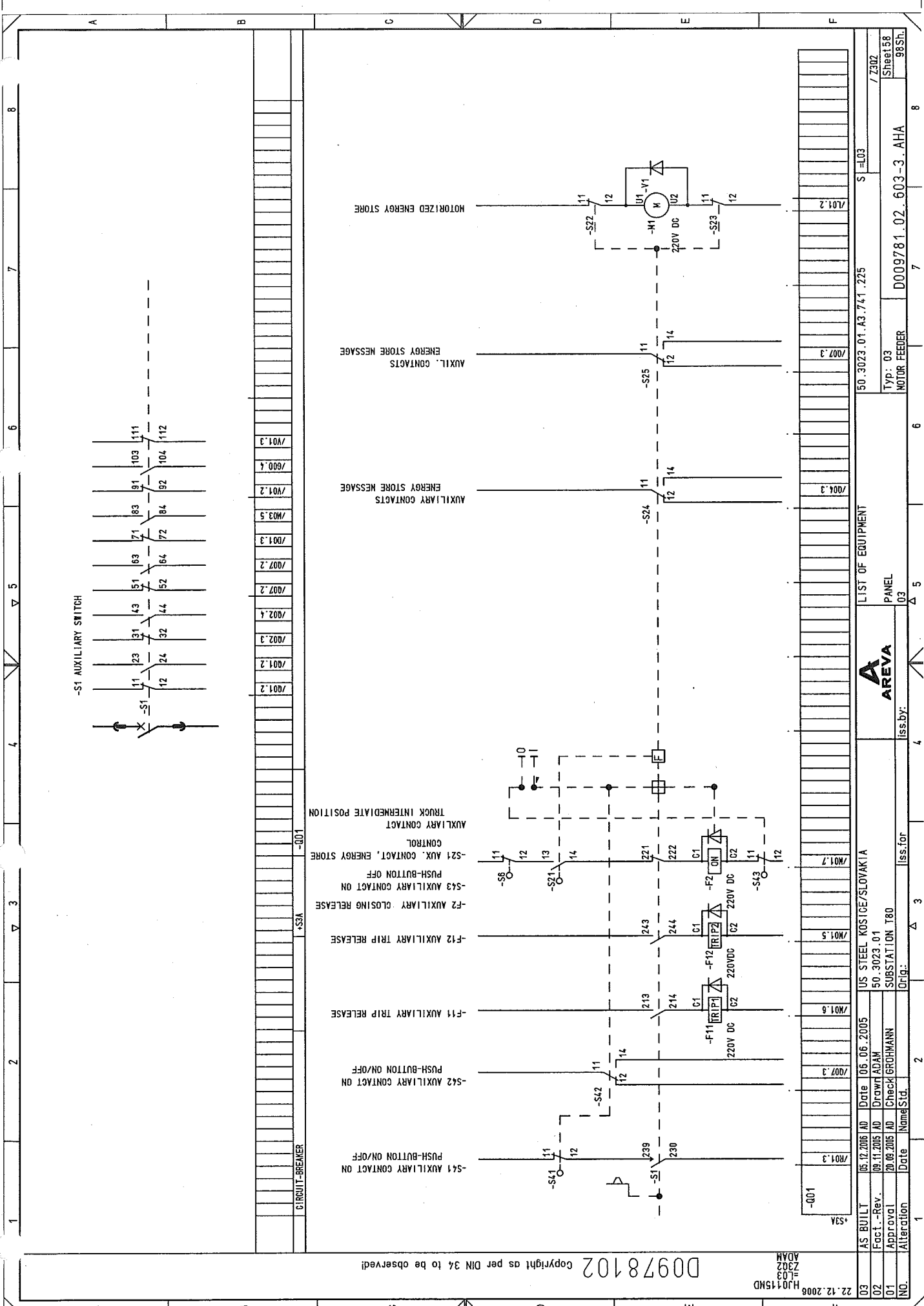
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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	150.3023.01.A3.741.225	S=L03	/Z2T1
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	PANEL			Sheet 55
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL			98 Sh.
NO.	Alteration	Date	Name	Sid.	Iss.by:	Iss.for	Iss.by:	Typ: 03	MOTOR FEEDER	D009781.02.603-3.AHA

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	<div> AREVA</div>	LIST OF EQUIPMENT			50_3023_01_A3_741_225		S=L03	
02	Fact.-Rev.	09.11.2005 AD	Drawn ADAM	50_3023_01									/ ZZY1
01	Approval	20.09.2005 AD	Checked GROHMANN		SUBSTATION T80								Sheet 56
00	Alteration		Name Std.		Orig.		Iss. for				Type: 03	MOTOR FEEDER	D009781.02_603-3_AHA
							iss. by:				PANEL 03		98Sh.
		1	2		3		4	5		6	7	8	

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-S1 AUXILIARY SWITCH

CIRCUIT-BREAKER

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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.A3.741.225	S1=L03	7/2302
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	PANEL			Sheet 158
01	Approval	20.02.2005	AD	Check	GROHMANN	SUBSTATION T80	03	MOTOR FEEDER	D009781.02.603-3.AHA	98Sh.
NO.	Alteration	Date	Name	Std.	Iss.by:	Iss.for:				



LIST OF EQUIPMENT

50.3023.01.A3.741.225

S1=L03

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Sheet 158

MOTOR FEEDER

D009781.02.603-3.AHA

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Iss.for:

US STEEL KOSICE/SLOVAKIA

SUBSTATION T80

50.3023.01

Drawn

ADAM

Check

GROHMANN

Date

20.02.2005

Approval

AD

Fact.-Rev.

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05.12.2005

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1		2		3		4		5		6		7		8	
STÜCK- TITEL		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		ANSTOßSCHALTER		MANUF.: ALSTOM PO NO.:		TYPE		11 12							
		TECHNICAL COMPONENTS		TYP		ORDER NO									
		APPLICATION		SETTINGS		MOUNTING		BIN IDENTIFIER							
		CRANK INSERTED		SLIDE-IN MODULE		*SSA		-S61							
		CRANK INSERTED		SLIDE-IN MODULE		*SSA		-S62							
		CRANK INSERTED		SLIDE-IN MODULE		*SSA		-S63							

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.225	S1-L03	/ Z3S1
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 03	MOTOR FEEDER	Sheet 59
No.	Alteration	Date	Name	Std.	Iss. for	Orig.	Iss. by:	D009781.02.603-3.AHA		98Sh.



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1		2		3		4		5		6		7		8	
STICK-TITEL		DESCRIPTION, DESIGN, TECHNICAL DATA		SETTINGS		MANUFACTURER, TYPE, ORDERING DATA		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM		WITH REFERENCES TO DETAILS	
APPLICATION		SETTINGS		MOUNTING		APPA. DESIG.		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM		SHEET NO.		CIRCUIT NO.	
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		SPERRMAGNET AN SCHALTWAGEN		PO NO.:											
		TECHNICAL COMPONENTS		: 220VDC		ORDER NO									
		APPLICATION		SLIDE-IN MODULE		SETTINGS		MOUNTING		8TH IDENTIFIER					
		RELEASE						+S3A		-Y1					

03	AS BUILT	05.12.2005 AD	Date	05.05.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005 AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.

LIST OF EQUIPMENT		50.3023.01.A3.741.225		S L03	
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03		MOTOR FEEDER		D009781.02.603-3.AHA	
				Sheet 60	
				98Sh.	

03	AS BUILT	05.12.2006	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM		50_3023_01_A3_741_225	V = L03 +STA.R	
02	Fact.-Rev.	02.11.2005	AD	Drawn	ADAM	50_3023_01						
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80						
NO.	Alteration	Date	Name	Std.		Orig.	Iss for	Iss by:	03	PANEL	Type: 03 MOTOR FEEDER	Sheet 61 98 Sh.
D009781.02_603-3_AHA												

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM	50.3023.01.A3.74.1.225	V=L03	/K02
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.08.2005	AD	Checked	GROHMANN	SUBSTATION T80	PANEL 03	Type: 03 MOTOR FEEDER	D009781.02.603-3.AHA	Sheet 62 98Sh	
IN0	Alteration			Named	Std.	Orig.					Iss.for
		1	2		3		4	5	6	7	8

1

003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
001	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	30.3023.01
02	Approval	20.09.2005	AD	Checked	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.	

1		2		3		4		5		6		7		8	
CABLE		WIRES USED SHEET/STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		TERM. TYPE	
												H07V-K 1.5MM2 SW		STANDARD: UKK83	
												0 H05V-K 1.0MM2 SW			

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM	50_3023_01_A3_741_225		V = L03
02	Fact. - Rev.	09.11.2005	AD	DRAWN ADAM	50_3023_01					+S1A.R	
01	Approval	20.08.2005	AD	Checked GROHMANN	SUBSTATION T80				PANEL	Typ.: 03	/ K12
NO.	Alteration	Date	Name/Sid.	Orig.:	Iss. for	Iss. by:	03	MOTOR FEEDER	D009781.02_603-3_AHA		98St.

NO. 33	AS BUILT	05.12.2005	NO	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM		50_3023_01_A3_747_225		V = L03		
	Fact. -Rev.	09.11.2005	NO	Drawn	ADAM	50_3023_01			PANEL				+51A.R	/ K30
NO. 11	Approval	20.09.2005	NO	Check	GROHMANN	SUBSTATION T80			03		Type: 03		Sheet 87	
NO.	Alteration	Date	Name	Sid.	NO.	Orig.	iss. for	iss. by:			MOTOR FEEDER		98Sh.	
											D009781.02_603-3_AHA			

[illegible]

1 NO. CABLE Wires used SHEET STATE CABLE-TYPE SECTION CORES -ROUTE- CIRCUIT DIAGRAM												4	5	6	7	8
2												CABLE MATERIAL Ø COLOR TERM. TYPE				
3												STANDARD: H07V-K 2.5MM2 SW STANDARD: URTK/S				
4												-X5				
RÜCK-REF.	NO												DESTINAT. DESIG.	CORES/LINE	POT	REMARK
	1	2	3	4	5	6	7	8	9	10	11	12				
/S01.2													+S2A -T1L1	152		
/S01.2													+S2A -T1L1	151		
/S01.2													-U401	1		
/S01.3													+S2A -T1L2	152		
/S01.3													+S2A -T1L2	151		
/S01.3													-U401	4		
/S01.3													+S2A -T1L3	152		
/S01.3													+S2A -T1L3	151		
/S01.3													-U401	7		
/S01.3													-XPE	PE		
/S01.4													-U401	3		
/S01.5													+S2A -T1L1	252		
/S01.5													+S2A -T1L1	251		
/S01.5													+S1A.T -P401	17		
/S01.6													+S2A -T1L2	252		
/S01.6													+S2A -T1L2	251		
/S01.6													+S1A.T -P402	17		
/S01.7													+S2A -T1L3	252		
/S01.7													+S2A -T1L3	251		
/S01.7													+S1A.T -P403	17		
/S01.7													-XPE	PE		
/S01.7													+S1A.T -P402	18		
/S01.5																
/S02.2																
/S02.2													+S2A -T1L1	352		
/S02.2													+S2A -T1L1	351		
/S02.3													+S1A.T -F301	-X1	1	
/S02.3													+S2A -T1L2	352		
/S02.3													+S2A -T1L2	351		
/S02.3													+S1A.T -F301	-X1	3	
/S02.4													+S2A -T1L3	352		
/S02.3													+S2A -T1L3	351		
/S02.3													+S1A.T -F301	-X1	5	
/S02.4													-XPE	PE		
/S02.4													+S1A.T -F301	-X1	2	

TERMINAL DIAGRAM



US STEEL KOSTICE/SLOVAKIA

50.3023.01

AS BUILT 05.12.2005 AD Date 06.06.2005

Fact.-Rev. 09.11.2005 AD Drawn ADAM

Approval 20.09.2005 AD Check GROHMANN

Alteration Date Name Std.

Substation T80

Orig.

Iss. for

Iss. by:

PANEL

03

Typ: 03

MOTOR FEEDER

D009781.02.603-3-AHA

Sheet 69

98Sh.

[illegible]

[illegible]

003	AS BUILT	05.12.2005	AD	Date	06.08.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.74.1.225		V = L03
002	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01			-SJA.R		/ K80
001	Approval	20.08.2005	AD	Checked	GROHMANN	SUBSTATION T80			Typ: 03		Sheet/2
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by:	03	MOTOR FEEDER	D009781.02.603-3.AHA	98Sh: 98Sh:

[illegible]

[illegible]

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
-X9							
RÜCK-REF.	NO	CORES/LINE	DESTINAT. DESIG.	EXTERNAL	POT	NO	DESTINAT. DESIG. INTERN
/V01.2	1	2	3	4	5	6	7
/600.4							
/V01.3							
/P02.6							
/600.4							
/V01.4							
/V01.5							
/V01.5							
/V01.6							
/V01.7							
/V01.7							
/V01.8							
/V01.8							
/V01.8							
/V01.2							
/600.4							
/V01.3							
/P02.6							
/600.4							
/V01.4							
/V01.5							
/V01.5							
/V01.6							
/V01.7							
/V01.8							
/V01.8							
/V01.8							

Copyright as per DIN 34 to be observed!

D0978102

03 AS BUILT 05.12.2005 AD Date 06.06.2005 US STEEL KOSICE/SLOVAKIA

02 Fact.-Rev. 09.11.2005 AD Drawn ADAM 50.3023.01

01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80

NO. Alteration Date Name Std. Orig.

ISS BY: AREVA

PANEL 03

TERMINAL DIAGRAM

50.3023.01.A3.741.225

VI-L03

+STA.R

/K90

Sheet 75

98Sh.

003	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
002	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION 180
NO.	Alteration	Date	Name	Sted	Orig.:	Iss.:

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
G00	CBF+ 1 1.5MW2	H07V-K SW	-X0	5 -K203	13 -K203	33			
G01	D0220V.L+ 2 2.5MW2	H07V-K SW	-X0	12 -F102	1 -F103	1 -F105	1 -F111	1 -F121	
G01	D0220V.L- 2 2.5MW2	H07V-K SW	-X0	14 -F102	3 -F103	3 -F105	3 -F111	3 -F121	
G02	1 1.5MW2	H07V-K SW		-K451A	81 -K451B	54			
G02	1 1.5MW2	H07V-K SW	-X1	131 -K451A	54 -K451A	82			
M01	102L- 1 1.5MW2	H07V-K SW	-X1	122 -K01E	34 -K11E	34 -K201	A2		
M01	1 1.5MW2	H07V-K SW	-X1	136 -K01A	14 -K11A	14 -K201	14		
M01	1 1.5MW2	H07V-K SW	-X1	139 -K01A	13 -K01E	13 -K11A	13 -K11E	13	
M01	1 1.5MW2	H07V-K SW	-X1	140 -K01E	14 -K11E	14 -K201	13 -K201	21	
M01	1 1.5MW2	H07V-K SW	-X1	142 -K01E	33 -K11E	33			
M02	102L- 1 1.5MW2	H07V-K SW	-X1	125 -K02E	34 -K12E	34 -K202	A2		
M02	1 1.5MW2	H07V-K SW	-X1	156 -K02A	14 -K12A	14 -K202	14		
M02	1 1.5MW2	H07V-K SW	-X1	159 -K02A	13 -K02E	13 -K12A	13 -K12E	13	
M02	1 1.5MW2	H07V-K SW	-X1	160 -K02E	14 -K12E	14 -K202	13 -K202	21	
M02	1 1.5MW2	H07V-K SW	-X1	162 -K02E	33 -K12E	33			
M03	102L- 1 1.5MW2	H07V-K SW	-X1	130 -K01A	A2 -K01E	A2 -K02A	A2 -K02E	A2 -K71	A2
	----->			-K451A	A2 -K451B	A2			
M04	1 1.5MW2	H07V-K SW		-A100 -X20	5 -K02A	A1			
M04	1 1.5MW2	H07V-K SW		-A100 -X20	1 -K01A	A1			
M04	1 1.5MW2	H07V-K SW		-A100 -X20	3 -K01E	A1			
M04	1 1.5MW2	H07V-K SW		-A100 -X20	5 -K02A	A1			

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00978102

22.12.2008

03

AS BUILT

05.12.2005

AD

06.06.2005

US STEEL KOSICE/SLOVAKIA

50.3023.01

02

Fact.-Rev.

09.11.2005

AD

Drawn ADAM

01

Approval

20.03.2005

AD

Check GROHMANN

NO.

Alteration

Date

Name

Sld.

Iss.for

Iss.by:

AREVA

CROSS CONNECT. LIST

RELAY BOX

PANEL

03

50.3023.01.A3.741.225

V=03

451A.R

/ Q10

Sheet 77

98 Sh.

D009781.02.603-3.AHA

7

8

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22.12.2008

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Sid.	Iss.	for

GROSS CONNECT. LIST		50.3023.01.A3.741.225	V	403	7.810
RELAY BOX					
PANEL					
03					
AREVA					
Iss.by:					
4					
5					
6					
7					
8					

Typ: 03
MOTOR FEEDER

D009781.02.603-3.AHA

Sheet 77
98 Sh.

1	2	3	4	5	6	7	8		
CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM OR SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
M04	1 1.5MM2	H07V-K SW		-A100 -X20	7 -K02E	A1			
M04	102L+ 1 1.5MM2	H07V-K SW	-X1	120 -A100 -X20	11 -A100 -X20	13 -A100 -X20	15 -A100 -X20	17	
M05	102L+ 1 1.5MM2	H07V-K SW	-X1	117 -F310	11 -K501	71			
M05	1 1.5MM2	H07V-K SW	-X1	146 -F310	12 -K501	72			
P02	1 1.5MM2	H07V-K SW	-X9	904 -XPE	1 -X01	B11			
P02	1 1.5MM2	H07V-K SW	-X9	918 -XPE	2 -X01	B12			
Q02	1 1.5MM2	H07V-K SW		-A100 -X10	10 -A100 -X10	40			
Q04	03L+ 1 1.5MM2	H07V-K SW	-X8	808 -F111	12 -F121	12			
Q04	1 1.5MM2	H07V-K SW	-X8	833 -F111	11 -F121	11			
Q05	1 1.5MM2	H07V-K SW		-A100 -X11	10 -A100 -X11	40			
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8	811 -F310	9 -F310	13 -K100	19		
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8	813 -F102	12 -F103	12 -F105	12 -F203	12	
Q05	1 1.5MM2	H07V-K SW	-X8	846 -F102	11 -F103	11 -F105	11 -F203	11	
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	2 -U401	17			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	3 -U401	18			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	6 -U401	15			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	7 -U401	16			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	32 -U401	19			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	33 -U401	20			
Q06	1 1.5MM2	H07V-K SW		-A100 -X30	36 -U401	21			

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22.12.2006

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

GROSS CONNECT. LIST		50.3023.01.A3.741.225	V	403
RELAY BOX				
PANEL				
03				

Typ: 03	MOTOR FEEDER	D009781.02.603-3.AHA	8
Sheet 78	985h.		

CROSS CONNECTION

[illegible]

03	AS BUILT	05.12.2005	AD	05.06.2005	US STEEL KOSICE/SLOVAKIA		CROSS CONNECT. LIST	50_3023.01_A3_741_225	V = L03 +S1A.T	
02	Fact. -Rev.	09.11.2005	AD	Drawn ADAM	50_3023.01					RELAY BOX
01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80					PANEL
NO.	Alteration	Date	Name/Std.	Iss for	Iss by:	03	Type: 03	D009781_02_603-3_AHA	Sheet 83 98 Sh.	

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

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

A			B			C			+
1	X1	101	X8	822	X1	145	X3	325	1
	/L01.2 H05V-K 1.0MM2 SW		/D02.4 H05V-K 1.0MM2 SW		/M01.5 H05V-K 1.0MM2 SW		/D01.3 H05V-K 1.0MM2 SW		
2	X1	102	X8	866	X1	122	X8	803	2
	/L01.2 H05V-K 1.0MM2 SW		/D07.2 H05V-K 1.0MM2 SW		/M01.5 H05V-K 1.0MM2 SW		/D02.5 H05V-K 1.0MM2 SW		
3	X1	136	X8	873	X8		X8	823	3
	/M01.6 H05V-K 1.0MM2 SW		/D07.2 H05V-K 1.0MM2 SW				/D02.5 H05V-K 1.0MM2 SW		
4	X1	123	X8	871	X8		X8	825	4
	/M01.6 H05V-K 1.0MM2 SW		/D07.2 H05V-K 1.0MM2 SW				/D02.5 H05V-K 1.0MM2 SW		
5	X1	138	X0	5	X0	025	X9	906	5
	/M01.7 H05V-K 1.0MM2 SW		/D01.3 H05V-K 1.0MM2 SW		/P01.2 H05V-K 1.0MM2 SW		/V01.4 H05V-K 1.0MM2 SW		
6	X1	142	X0	7	X0	027	X9	920	6
	/M01.7 H05V-K 1.0MM2 SW		/D01.3 H05V-K 1.0MM2 SW		/P01.2 H05V-K 1.0MM2 SW		/V01.4 H05V-K 1.0MM2 SW		
7	X8	809	X1	116	X1		X8	869	7
	/D04.3 H05V-K 1.0MM2 SW		/M03.5 H05V-K 1.0MM2 SW				/D07.4 H05V-K 1.0MM2 SW		
8	X8	834	X1	173	X1		X8	877	8
	/D04.3 H05V-K 1.0MM2 SW		/M03.5 H05V-K 1.0MM2 SW				/D07.4 H05V-K 1.0MM2 SW		
9	X8	836	X9	901	X9	902	X9	907	9
	/D04.3 H05V-K 1.0MM2 SW		/M01.2 H05V-K 1.0MM2 SW		/V01.2 H05V-K 1.0MM2 SW		/V01.5 H05V-K 1.0MM2 SW		
10	X4	410	X9	915	X9	916	X9	921	10
	/R01.3 H05V-K 1.0MM2 SW		/M01.2 H05V-K 1.0MM2 SW		/V01.2 H05V-K 1.0MM2 SW		/V01.5 H05V-K 1.0MM2 SW		
11	X4	413	X9	904	X9	903	X9	905	11
	/R01.3 H05V-K 1.0MM2 SW		/M01.4 H05V-K 1.0MM2 SW		/V01.3 H05V-K 1.0MM2 SW		/V01.4 H05V-K 1.0MM2 SW		
12	X3	302	X9	918	X9	917	X9	919	12
	/D01.2 H05V-K 1.0MM2 SW		/M01.3 H05V-K 1.0MM2 SW		/V01.3 H05V-K 1.0MM2 SW		/V01.4 H05V-K 1.0MM2 SW		
13	X3	321	X8	868	X9	908	X0	030	
	/D01.2 H05V-K 1.0MM2 SW		/D07.3 H05V-K 1.0MM2 SW		/V01.5 H05V-K 1.0MM2 SW		/P01.4 H05V-K 1.0MM2 SW		
14	X3	322	X8	876	X9	922	X0	023	
	/D01.2 H05V-K 1.0MM2 SW		/D07.3 H05V-K 1.0MM2 SW		/V01.5 H05V-K 1.0MM2 SW		/P01.4 H05V-K 1.0MM2 SW		
15	X8	802	X8	867	X3	303			
	/D02.3 H05V-K 1.0MM2 SW		/D07.3 H05V-K 1.0MM2 SW		/M01.3 H05V-K 1.0MM2 SW				
16	X8	821	X8	875	X3	323			
	/D02.3 H05V-K 1.0MM2 SW		/D07.3 H05V-K 1.0MM2 SW		/M01.3 H05V-K 1.0MM2 SW				
+									+

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

H0115ND
L03+S1A
S01

03	AS BUILT	05.12.2008	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.225	V L03	7	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER	+S1A.R	/ S01		
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 03	Sheet 80		
NO.	Alteration	Date	Name	Sid.	2	Orig.	Iss. for	Iss. by:	03	009781.02.603-3.AHA	98Sh.

1		2		3		4		5		6		7		8							
ASSEMBLY/INSTRUCT.				CABLE MATERIAL				TERM. TYPE				STANDARD:									
				STANDARD: HD7V-K 1.5MM2				BK				-X04									
RÜCK-REF.		LTG (Ø IN MM2) CABLE		CORE		DESTINAT. DESIG.		SOCKET		POT		NO		DESTINAT. DESIG. PIN		LTG (Ø IN MM2) CABLE		CORE		REMARK	
/M02.4						-X1		146				009		+S1B.R -X1		110					
/M02.4						-X1		126		102L-		010		+S1B.R -X1		111					
/C00ST.2												011									
/C00ST.2												012									
/C00ST.2												013									
/C00ST.2												014									
/C00ST.2												015									
/C00ST.2												016									
/M01.5						-X3		305		102L+		001		+S1B.R -X3		301					
/M01.5						-X3		326				002		+S1B.R -X3		303					
/M01.5						-X3		327				003		+S1B.R -X3		304					
/M01.5						-X3		328				004		+S1B.R -X3		305					
/M01.6						-X3		330				005		+S1B.R -X3		306					
/M03.4						-X8		806		03L+		006		+S1B.R -X8		801					
/M03.4						-X8		828				007		+S1B.R -X8		805					
/M03.4						-X8		829				008		+S1B.R -X8		806					
/M03.5						-X8		830				009		+S1B.R -X8		807					
/M03.5						-X8		832				010		+S1B.R -X8		808					
/C00ST.3												011									
/M05.6						-X8		842				012		+S1B.R -X8		809					
/M05.6						-X8		843		FAULT		013		+S1B.R -X8		810					
/C00ST.3												014									
/M04.4						-X8		835				015		+S1B.R -X8		811					
/C00ST.3												016									

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NO.

AS BUILT

Fact.-Rev.

Approval

Alteration

06.12.2005

09.11.2005

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CHECK BROHMANN

US STEEL KOSTICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Onlg:

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PLUG DIAGRAM

NIEDERSPG. -SCHR. A-

PANEL

03

50.3023.01.A3.741.225

NIEDERSPG. -SCHR. B

MOTOR FEEDER

D009781.02.603-3.AHA

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8

22.12.2006

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Copyright as per DIN 34 to be observed

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.225	V=L03	7	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	NIEDERSPG.-SCHR.A-		+STA.R		
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 03			
NO.	Alteration	Date	Name	Std.		Orig.	iss.by:	MOTOR FEEDER	D009781.02.603-3.AHA	7	8
							03				



03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_74_1_225	V = L03	/ K01	Sheet 84 98 Sh.
02	Fact.-Rev.	09.11.2005	AD	Drawn/ADAM	50_3023_01							
01	Approval	20.09.2005	AD	Check GROHMANN	SUBSTATION T80							
IND.	Alteration	Date	Name/Stid.	Drawn								
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NO. CABLE																	WIRES USED SHEET STATE																	CABLE-TYPE SECTION																	CORES -ROUTE																	CIRCUIT DIAGRAM																	CABLE MATERIAL																	Ø COLOR																	TERM. TYPE																																																																			
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CROSS CONNECTION

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03	AS BUILT	05.12.2006	AD	Date	10.06.2005	US STEEL KOSTOE/SLOVAKIA		CROSS CONNECT. LIST	50.3023.01.43.741.225	V=03 +52A	
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80					
NO.	Alteration	Name		Std.	Orig.	Iss:for	Iss:by:	03	Typ: 03 MOTOR FEEDER	D009781.02.603-3.AHA 985b.	Sheet 92 / 020

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	0 1.0MW2	H05V-K SW	-X01	B05 -S1	-001 71				
D01	0 1.0MW2	H05V-K SW	-X01	B06 -S1	-001 72				
L01	111L+ 0 1.0MW2	H05V-K SW	-X01	A01 -S22	-001 11				
L01	111L- 0 1.0MW2	H05V-K SW	-X01	A02 -S23	-001 12				
M01	0 1.0MW2	H05V-K SW	-F2	-001 C1 -S1	-001 222				
M01	0 1.0MW2	H05V-K SW	-F2	-001 C2 -S43	-001 11				
M01	0 1.0MW2	H05V-K SW	-S1	-001 221 -S21	-001 14				
M01	0 1.0MW2	H05V-K SW	-S21	-001 13 -S6	-001 12				
M01	0 1.0MW2	H05V-K SW	-X01	A03 -S1	-001 213				
M01	102L- 0 1.0MW2	H05V-K SW	-X01	A04 -F11	-001 C2				
M01	0 1.0MW2	H05V-K SW	-X01	A05 -S6	-001 11				
M01	0 1.0MW2	H05V-K SW	-X01	A06 -S43	-001 12				
M03	102L+ 0 1.0MW2	H05V-K SW	-X01	B07 -S1	-001 83				
M03	0 1.0MW2	H05V-K SW	-X01	B08 -S1	-001 84				
P01	0 1.0MW2	H05V-K SW	-S1	-01 32 -S61	14				
P01	0 1.0MW2	H05V-K SW	-X01	C05 -S1	-01 31				
P01	BUSBAR ES.RELEASE 0 1.0MW2	H05V-K SW	-X01	C06 -S61	11				
P01	DRANG.UNIT RELEASE 0 1.0MW2	H05V-K SW	-X01	D13 -Y1	E1				
P01	214L- 0 1.0MW2	H05V-K SW	-X01	D14 -Y1	E2				
Q01	102L+ 0 1.0MW2	H05V-K SW	-X01	A12 -S1	-001 11 -S1 23				

03	AS BUILT	05.12.2005 AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 CROSS CONNECT. LIST SWITCHING TRUCK PANEL 03	50.3023.01.A3.741.225	V1.003 +33A	7.030
02	Fact.-Rev.	09.11.2005 AD	Date	09.11.2005	50.3023.01				
01	Approval	20.09.2005 AD	Date	20.09.2005	CHECK GROHMANN				
NO.	Alteration		Date						

Iss.by: 03
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Orig: 03

D009781.02.603-3.AHA

Typ: 03
MOTOR FEEDER

Sheet 93
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CROSS CONNECTION

REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q01	0 1.0MW2	H05V-K SW	-X01	A13 -S1	-001 12				
Q01	0 1.0MW2	H05V-K SW	-X01	A14 -S1	-001 24				
Q01	102L+ 0 1.0MW2	H05V-K SW	-X01	C15 -S1	-01 11 -S1 13				
Q01	0 1.0MW2	H05V-K SW	-X01	C16 -S1	-01 12				
Q01	0 1.0MW2	H05V-K SW	-X01	D01 -S1	-01 14				
Q02	03L+ 0 1.0MW2	H05V-K SW	-X01	A15 -S1	-001 31 -S1 43				
Q02	0 1.0MW2	H05V-K SW	-X01	A16 -S1	-001 32				
Q02	0 1.0MW2	H05V-K SW	-X01	B01 -S1	-001 44				
Q02	03L+ 0 1.0MW2	H05V-K SW	-X01	D02 -S1	-01 21 -S1 23				
Q02	0 1.0MW2	H05V-K SW	-X01	D03 -S1	-01 22				
Q02	0 1.0MW2	H05V-K SW	-X01	D04 -S1	-01 24				
Q04	03L+ 0 1.0MW2	H05V-K SW	-X01	A07 -S24	-001 11				
Q04	0 1.0MW2	H05V-K SW	-X01	A08 -S24	-001 12				
Q04	0 1.0MW2	H05V-K SW	-X01	A09 -S24	-001 14				
Q07	0 1.0MW2	H05V-K SW	-X01	B02 -S1	-001 51 -S1 63				
Q07	0 1.0MW2	H05V-K SW	-X01	B03 -S1	-001 52				
Q07	0 1.0MW2	H05V-K SW	-X01	B04 -S1	-001 64				
Q07	0 1.0MW2	H05V-K SW	-X01	B13 -S42	-001 11				
Q07	0 1.0MW2	H05V-K SW	-X01	B14 -S42	-001 14				
Q07	0 1.0MW2	H05V-K SW	-X01	B15 -S25	-001 11				

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AS BUILT
Fact.-Rev.
Approval
Alteration

05.12.2005 AD
06.11.2005 AD
20.06.2005 AD
Date

06.06.2005
Drawn ADAM
Check GROHMANN
Name Std.

05 STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

Iss. for

CROSS CONNECT. LIST
SWITCHING TRUCK
PANEL
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V=L03
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Typ: 03
MOTOR FEEDER

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CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
007	0 1.0MM2	H05V-K SW	-X01	B16 -S25	-001 14				
007	0 1.0MM2	H05V-K SW	-X01	D07 -S1	-01 33				
007	0 1.0MM2	H05V-K SW	-X01	D08 -S1	-01 34				
R01	0 1.0MM2	H05V-K SW	-X01	A10 -S4.1	-001 11				
R01	0 1.0MM2	H05V-K SW	-X01	A11 -S1	-001 230				
V01	0 1.0MM2	H05V-K SW	-S1	-01 42 -S62	14				
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	B11 -S1	-01 41				
V01	0 1.0MM2	H05V-K SW	-X01	B12 -S62	11				
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	-01 51				
V01	0 1.0MM2	H05V-K SW	-X01	D06 -S1	-01 52				
V01	0 1.0MM2	H05V-K SW	-X01	D09 -S1	-01 61				
V01	0 1.0MM2	H05V-K SW	-X01	D10 -S1	-01 62				

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03 AS BUILT 06.12.2005 AD Date 06.06.2005
02 Fact.-Rev. 08.11.2005 AD Drawn ADAM
01 Approval 20.09.2005 AD Check GROHMANN
NO. Alteration Date Name Sld.

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

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ISS. BY
03

GROSS CONNECT. LIST
SWITCHING TRUCK
PANEL

50.3023.01.A3.741.225
V=03
+53A

009781.02.603-3.AHA
Typ: 03
MOTOR FEEDER

032
Sheet 95
98SL

03	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 CROSS CONNECT. LIST SWITCHING TRUCK PANEL 03	50.3023.01.A3.741.225	V = L03 +53A	7.032
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:				

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

+S3A -X01 CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	+
	-001 /L01.2	-S22	11	-001 /L02.4	-S1	44	-001 /M01.5	-S1	243	-01 /M01.3	-S1	14			
1	-001 /L01.2	-S23	12	-001 /M01.5	-S1	51	-001 /M01.5	-F12	02	-01 /M02.5	-S1	21	0		
2	-001 /L01.2	-S1	213	-001 /M01.6	-S1	52	-001 /M01.6	-S1		-01 /M02.5	-S1	22			
3	-001 /M01.6	-F11	02	-001 /M01.7	-S1	61	-001 /M01.7	-S1		-01 /M02.5	-S1	24			
4	-001 /M01.7	-S6	11	-001 /M01.8	-S1	71	-001 /M01.8	-S1	31	-01 /M02.5	-S1	51			
5	-001 /M01.8	-S43	12	-001 /M01.9	-S1	72	-001 /M01.9	-S1	11	-01 /M02.5	-S1	52			
6	-001 /M01.9	-S24	11	-001 /M02.0	-S1	81	-001 /M02.0	-S1		-01 /M02.5	-S1	33			
7	-001 /M02.0	-S24	12	-001 /M02.1	-S1	84	-001 /M02.1	-S1		-01 /M02.5	-S1	34			
8	-001 /M02.1	-S24	14	-001 /M02.2	-S1	91	-001 /M02.2	-S1	103	-01 /M02.5	-S1	61			
9	-001 /M02.2	-S41	11	-001 /M02.3	-S1	92	-001 /M02.3	-S1	104	-01 /M02.5	-S1	62			
10	-001 /M02.3	-S1	230	-001 /M02.4	-S1	41	-001 /M02.4	-S1	111	-01 /M02.5	-S1	43			
11	-001 /M02.4	-S1	11	-001 /M02.5	-S1	11	-001 /M02.5	-S1	112	-01 /M02.5	-S1	44			
12	-001 /M02.5	-S42	12	-001 /M02.6	-S1	11	-001 /M02.6	-S1	14	-Y1 /M01.4	-S1	E1			
13	-001 /M02.6	-S1	24	-001 /M02.7	-S1	14	-001 /M02.7	-S1	11	-Y1 /M01.4	-S1	E2			
14	-001 /M02.7	-S1	31	-001 /M02.8	-S1	11	-001 /M02.8	-S1	11	-Y1 /M01.4	-S1				
15	-001 /M02.8	-S1	32	-001 /M02.9	-S1	14	-001 /M02.9	-S1	12	-Y1 /M01.4	-S1				
16	-001 /M02.9	-S1		-001 /M03.0	-S1		-001 /M03.0	-S1		-Y1 /M01.4	-S1				
+															

03		AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM		50.3023.01.A3.741.225	VI -L03	/ S01	
02		Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+S3A	/ S01	
01		Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL		Typ: 03		Sheet 97	
NO.		Alteration	Date	Name	Std.		Iss. for	03		MOTOR FEEDER		98Sh.	
								D009781.02.603-3.AHA				8	

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

D00978102
H0115MD
L03+S3A
S01
ADAM

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER
PIN

+S3B -X02 CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	A01	B01	C01	D01	E01	F01	G01	H01	I01	J01	K01	L01	M01	N01	O01
2	A02	B02	C02	D02	E02	F02	G02	H02	I02	J02	K02	L02	M02	N02	O02
3	A03	B03	C03	D03	E03	F03	G03	H03	I03	J03	K03	L03	M03	N03	O03
4	A04	B04	C04	D04	E04	F04	G04	H04	I04	J04	K04	L04	M04	N04	O04
5	A05	B05	C05	D05	E05	F05	G05	H05	I05	J05	K05	L05	M05	N05	O05
6	A06	B06	C06	D06	E06	F06	G06	H06	I06	J06	K06	L06	M06	N06	O06
7	A07	B07	C07	D07	E07	F07	G07	H07	I07	J07	K07	L07	M07	N07	O07
8	A08	B08	C08	D08	E08	F08	G08	H08	I08	J08	K08	L08	M08	N08	O08
9	A09	B09	C09	D09	E09	F09	G09	H09	I09	J09	K09	L09	M09	N09	O09
10	A10	B10	C10	D10	E10	F10	G10	H10	I10	J10	K10	L10	M10	N10	O10
11	A11	B11	C11	D11	E11	F11	G11	H11	I11	J11	K11	L11	M11	N11	O11
12	A12	B12	C12	D12	E12	F12	G12	H12	I12	J12	K12	L12	M12	N12	O12
13	A13	B13	C13	D13	E13	F13	G13	H13	I13	J13	K13	L13	M13	N13	O13
14	A14	B14	C14	D14	E14	F14	G14	H14	I14	J14	K14	L14	M14	N14	O14
15	A15	B15	C15	D15	E15	F15	G15	H15	I15	J15	K15	L15	M15	N15	O15
16	A16	B16	C16	D16	E16	F16	G16	H16	I16	J16	K16	L16	M16	N16	O16
+															

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.225	V1	+L03	7	501
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01	CIRCUIT-BREAKER			+S3B	8	981
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL					981
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	03	D009781.02.603-3.AHA	Typ: 03	MOTOR FEEDER	7	981

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

D00978102

HJ0115ND
=L03+S3B
S01
ADAM

22.12.2006