

AREVA Sachsenwerk GmbH Geschäftsbereich Energieverteilung Fachbereich Mittelspannungsschaltanlagen Königsbrücker Strasse 124 01099 Dresden Tel.: 03511820-3394 Fax: 03511820-2602

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

Star Point

CIRCUIT DIAGRAM

A = L021

/ A00

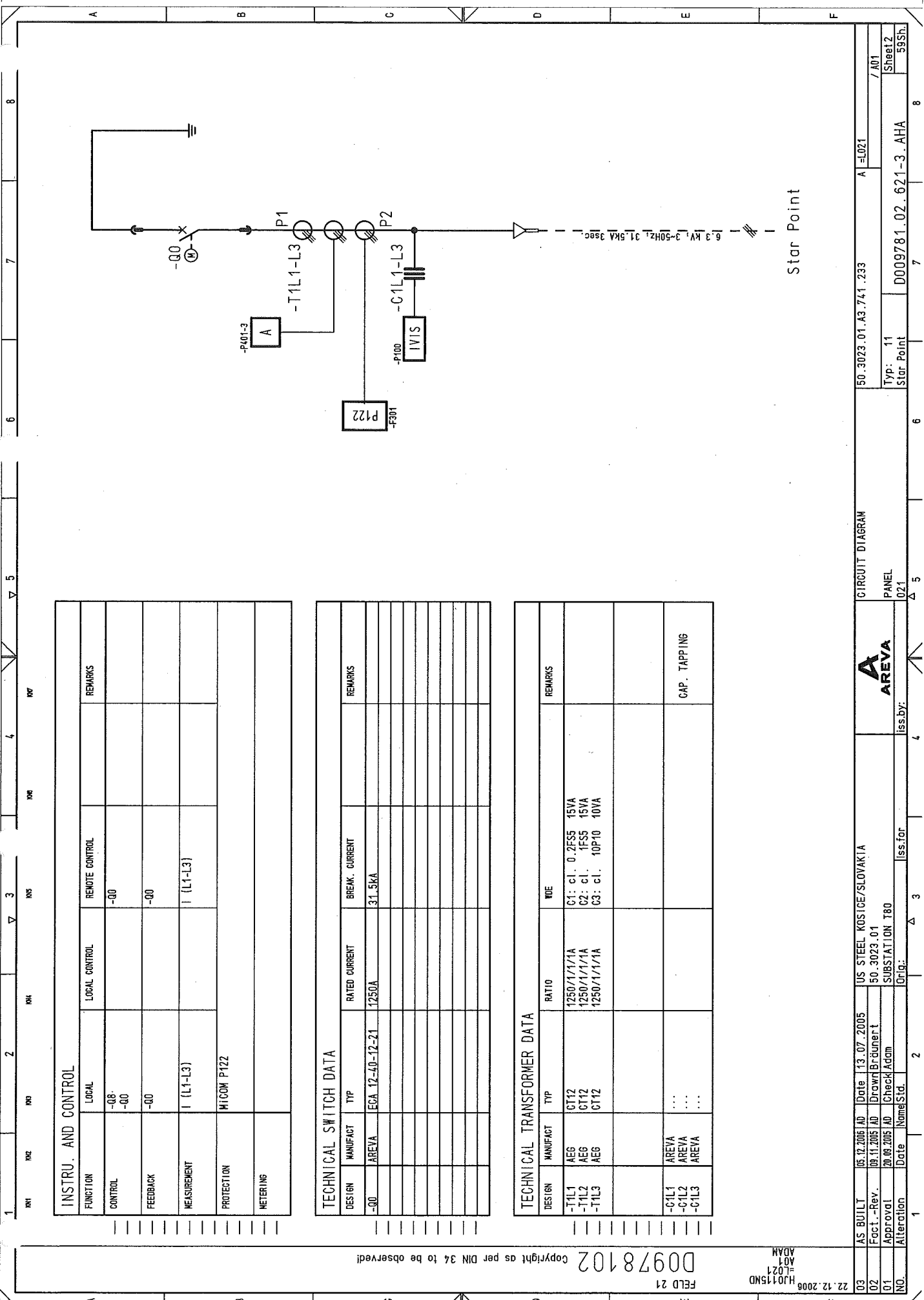
22.12.2006
HJ015MD
00978102
=L021
A00
ADAM
FELD 21

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

D009781.02. 621-3.AHA

50.3023.01.A3.741.233
COVER SHEET
PANEL
021

DATE :	13.07.2005
prep.:	Brünert
Check:	Adam
Norm :	



INSTRU. AND CONTROL				
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-Q8 -Q0		-Q0	
FEEDBACK	-Q0		-Q0	
MEASUREMENT	I (L1-L3)		I (L1-L3)	
PROTECTION	MICOM P122			
METERING				

TECHNICAL SWITCH DATA				
DESIGN	MANUFACT	TYP	RATED CURRENT	BREK. CURRENT
-Q0	AREVA	EGA 12-40-12-21	1250A	31.5kA

TECHNICAL TRANSFORMER DATA				
DESIGN	MANUFACT	TYP	RATIO	REMARKS
-T1L1	AES	CT12	1250/1/1/1A	C1: c1. 0.2FS5 15VA
-T1L2	AES	CT12	1250/1/1/1A	C2: c1. 1FS5 15VA
-T1L3	AES	CT12	1250/1/1/1A	C3: c1. 10P10 10VA
-C1L1	AREVA	...		CAP. TAPPING
-C1L2	AREVA	...		
-C1L3	AREVA	...		

Copyright as per DIN 34 to be observed!

ADAM
=L021
HJ015ND

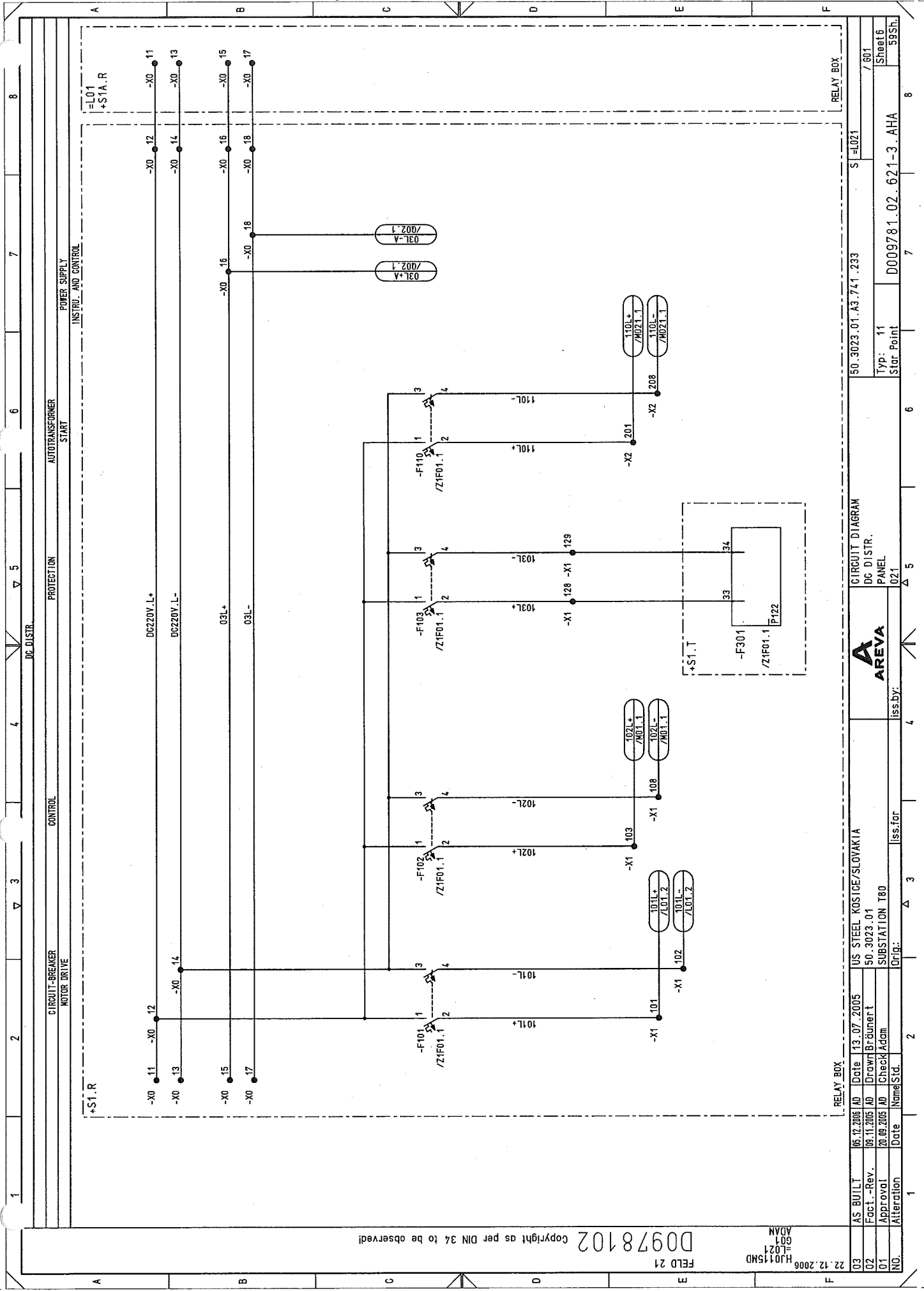
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02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert	50.3023.01					
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80	PANEL				Sheet 2
NO.	Alteration	Date	NomStd.	Iss.for	Orig.	Iss.by:	D00978102.621-3.AHA	Star Point	Typ: 11	59Sh.

FIELD 21
D0978102
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22.12.2006

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	ISS FOR	US STEEL KOSICE/SLOVAKIA	50.3023.01.A3.741.233	50.3023.01.A3.741.233	A	=L021	/B01
02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert							
01	Approval	20.09.2005 AD	Check	Adam							Sheet 3
NO.	Alteration	Date	Name	Std.	Iss. by:	Substation 180	Orig.	Typ:	11	Star Point	D009781.02.621-3.AHA

1		2		3		4		5		6		7		8	
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NO.	03	AS BUILT	06.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01	DC DISTR.	CIRCUIT DIAGRAM	50.3023.01.A3.741.233	S=L021	RELAY BOX
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02	Fact.-Rev.	08.11.2005	AD	Drawn	Brünnert								
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Typ: 11
Star Point

DC DISTR.
PANEL
021

AREVA

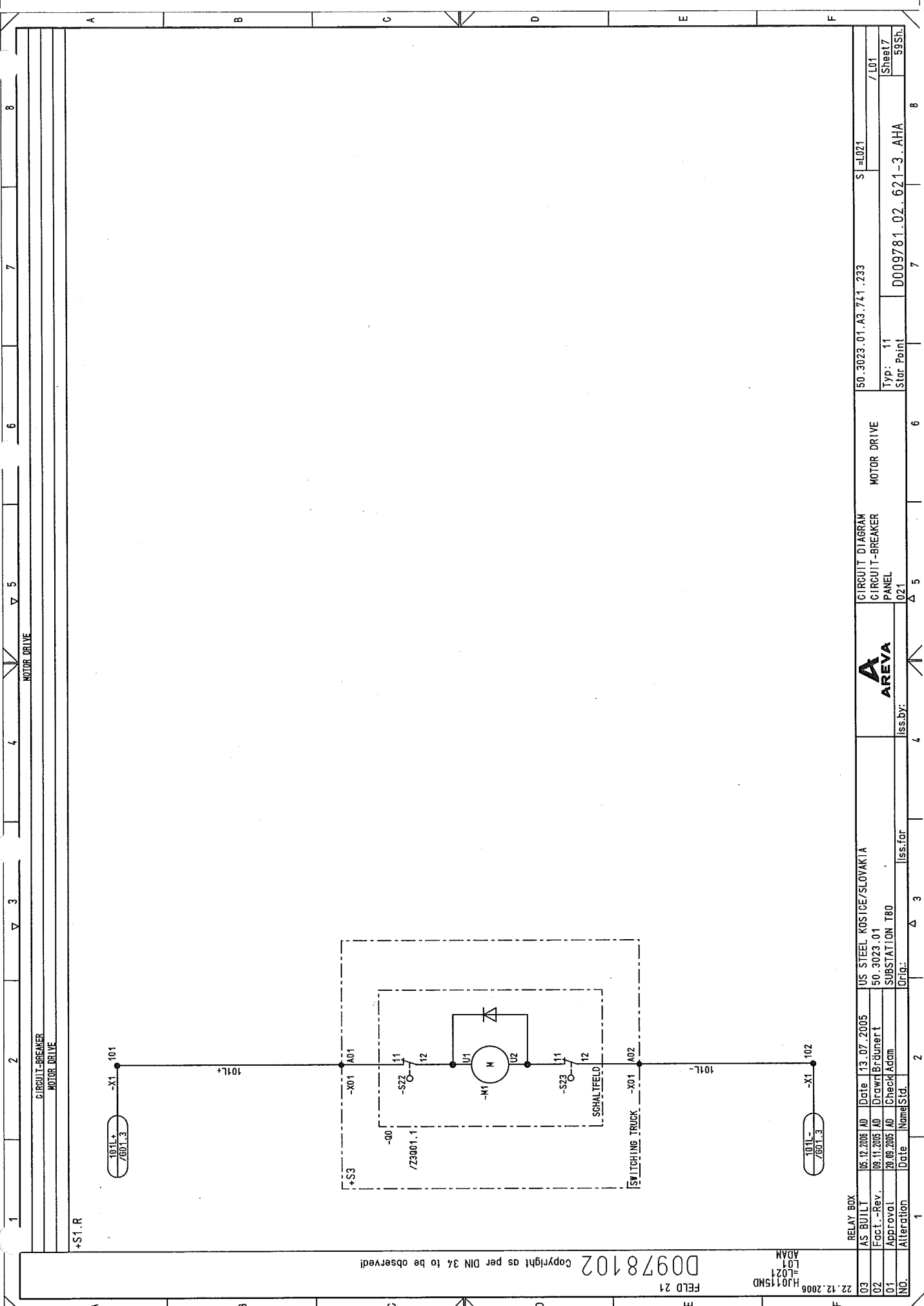
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Iss. by

Orig.

0009781.02.621-3.AHA

Sheet 6
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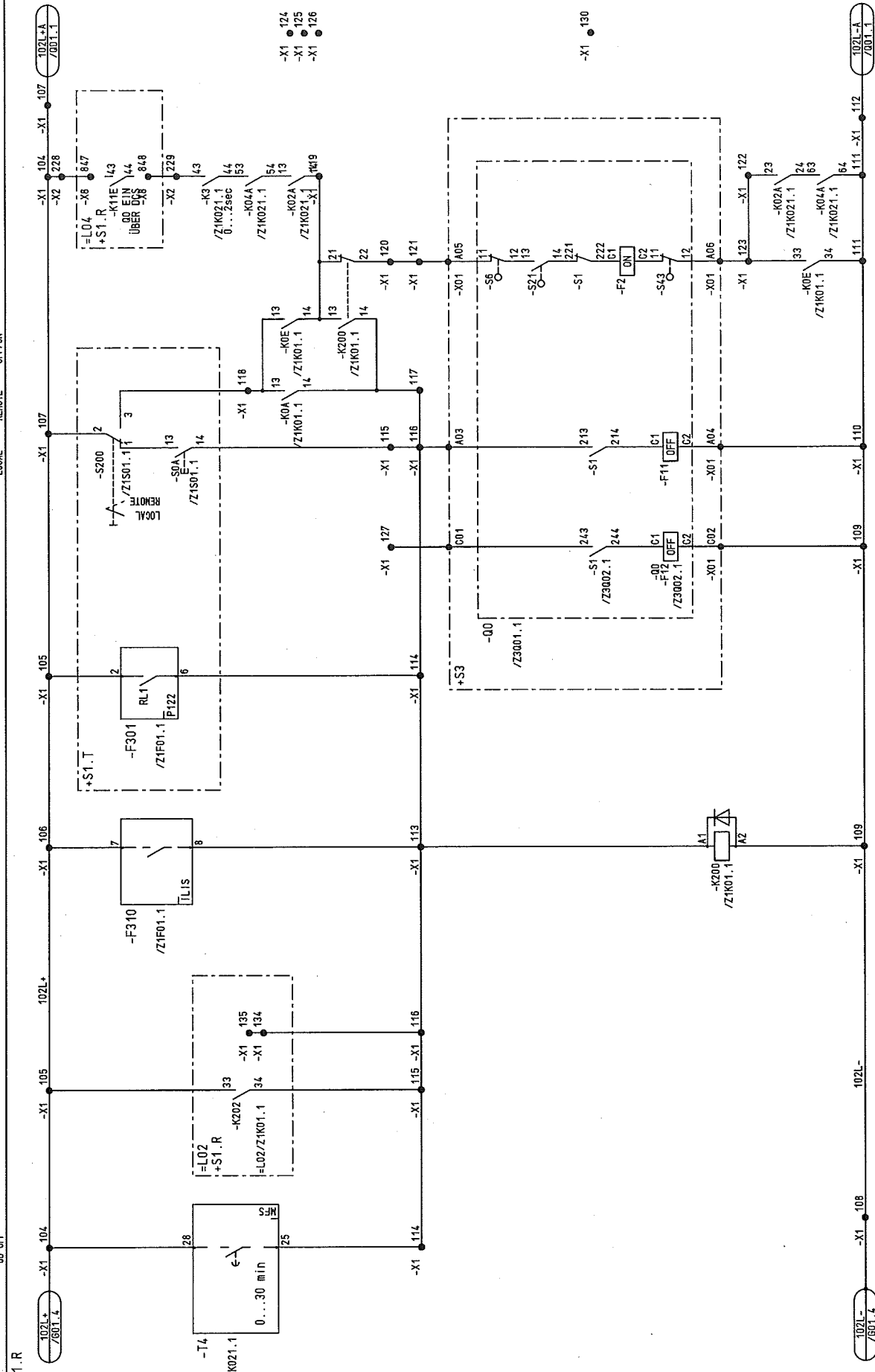


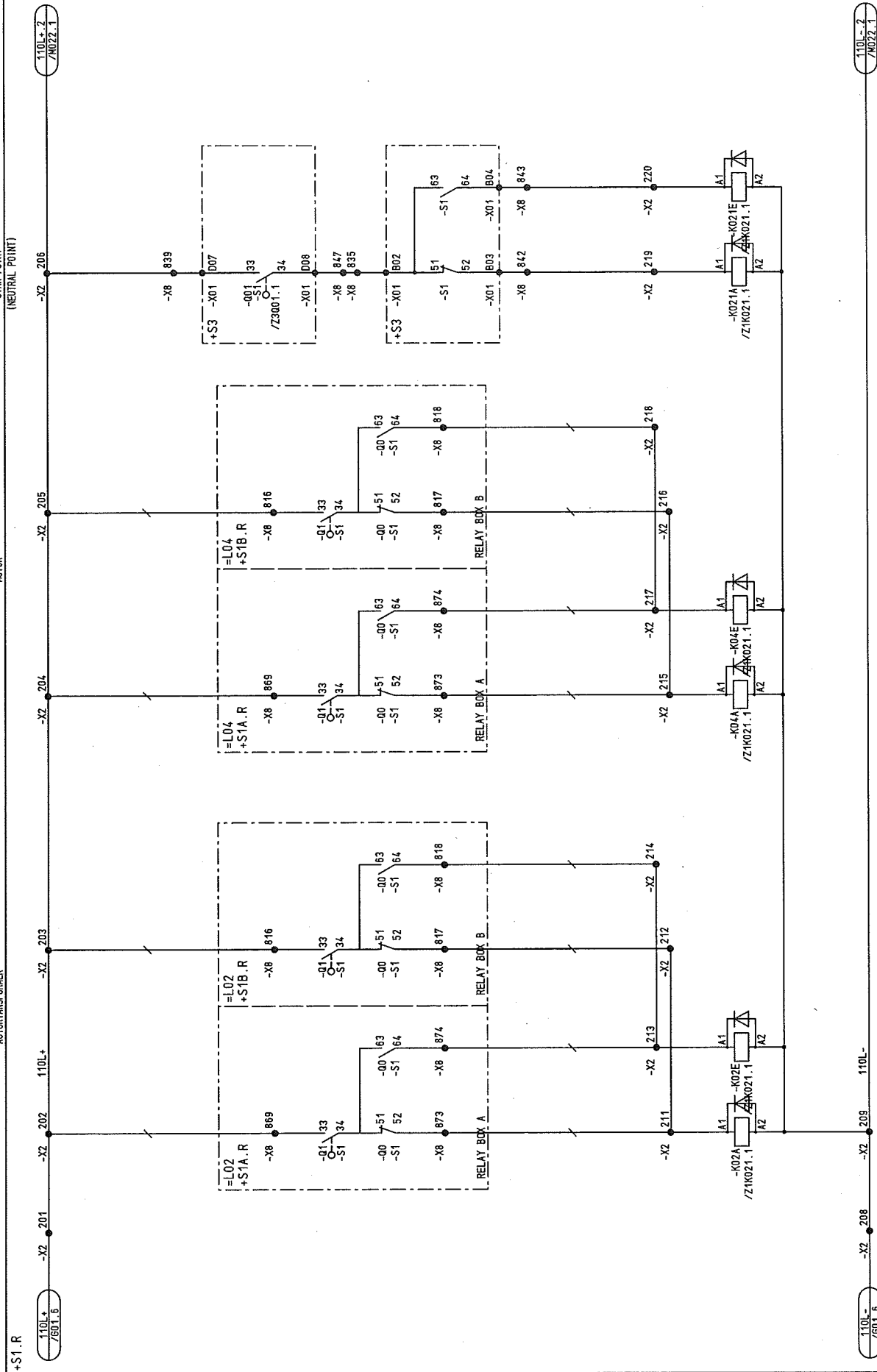
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01	Approval	20.05.2005 AD	Check	Adom	SUBSTATION T80	PANEL			Sheet 7
NO.	Alteration	Date	Named	Std.	Orig.	Iss. by:	Iss. for	Star Point	59Sh.
								D009781.02.621-3.AHA	



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FELD 21

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RELAY BOX

NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by
03	AS BUILT	05.12.2005	AD			
02	Fact. -Rev.	09.11.2005	AD			
01	Approval	20.09.2005	AD			

US STEEL KOSTICE/SLOVAKIA
50.3023.01
SUBSTATION T80



CIRCUIT DIAGRAM
AUTOTRANSFORMER STARTING
PANEL 021

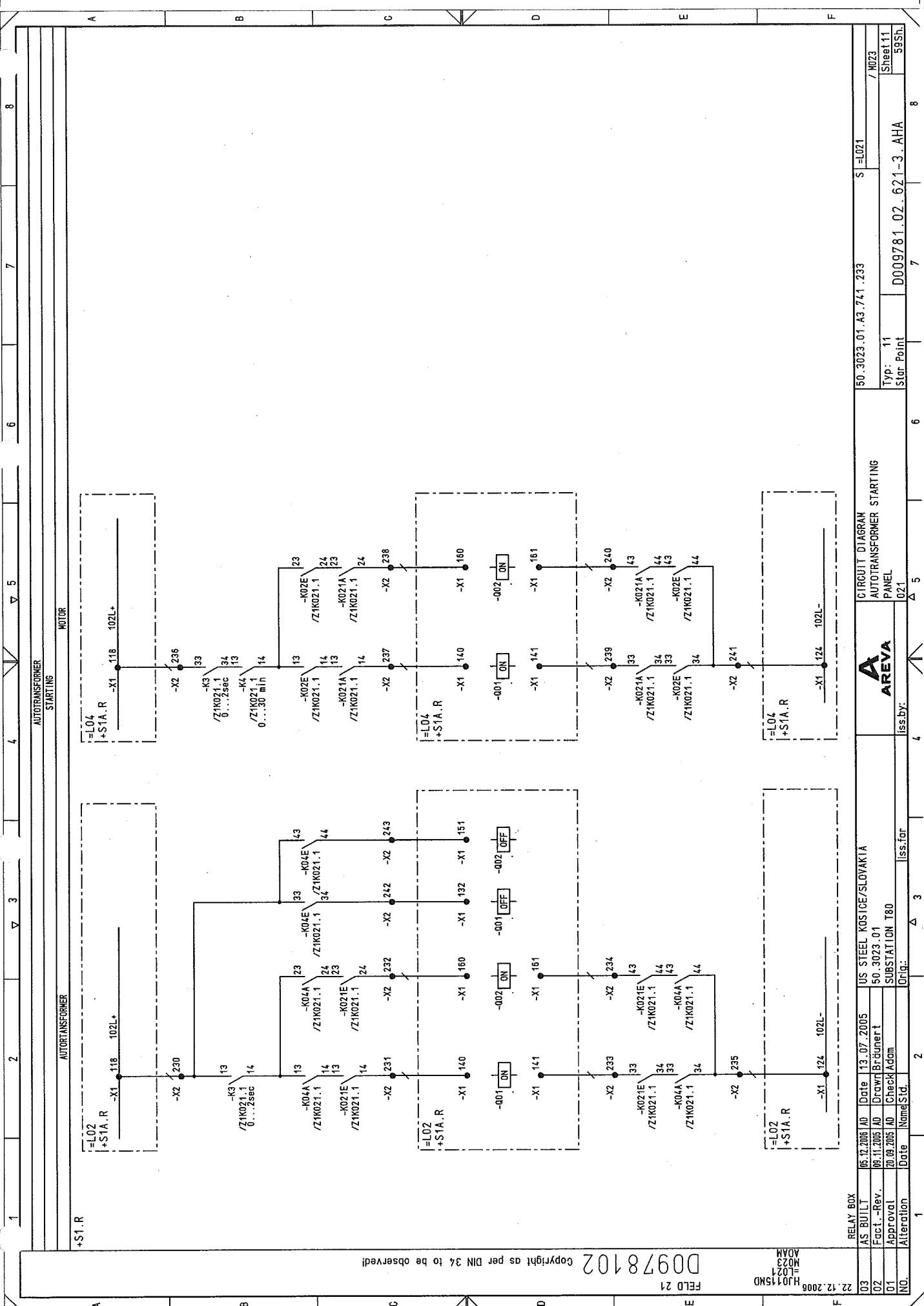
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D009781.02.621-3.AHA
59Sh.

110L-2
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110L-
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110L-2
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ADAM

NO.	Alteration	Date	Name/Std.	Iss. for	Orig.
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02	Fact. -Rev.	06.11.2005	AD	Drawn	Brüner
01	Approval	20.09.2005	AD	Check	Adom

US STEEL KOSICE/SLOVAKIA	50.3023.01
SUBSTATION T80	

ISS. BY:	ISS. FOR:	ORIG.

CIRCUIT DIAGRAM	50.3023.01.A3.741.233	S1=LO21
AUTOTRANSFORMER STARTING		
PANEL		

Typ: 11	11	11
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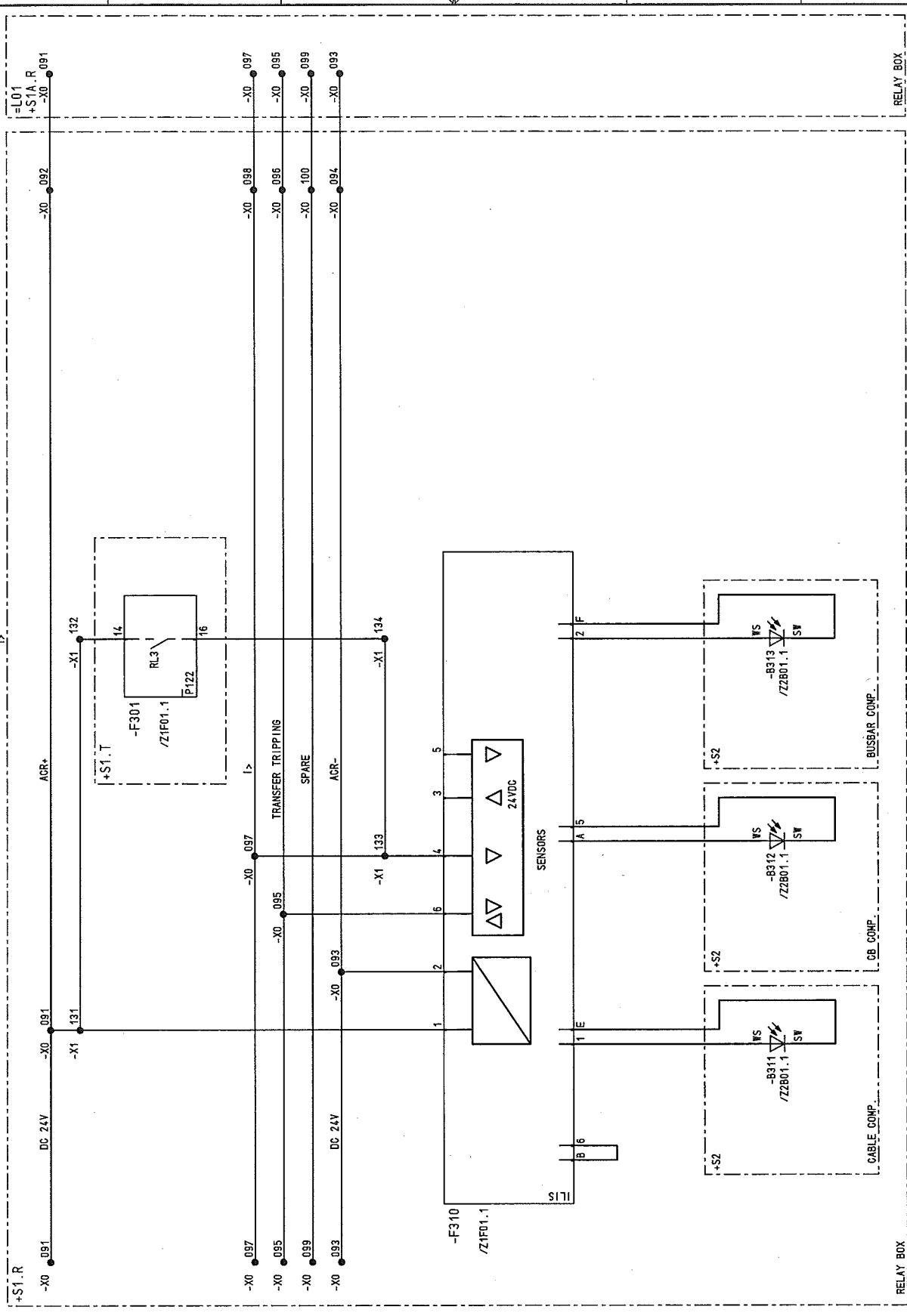
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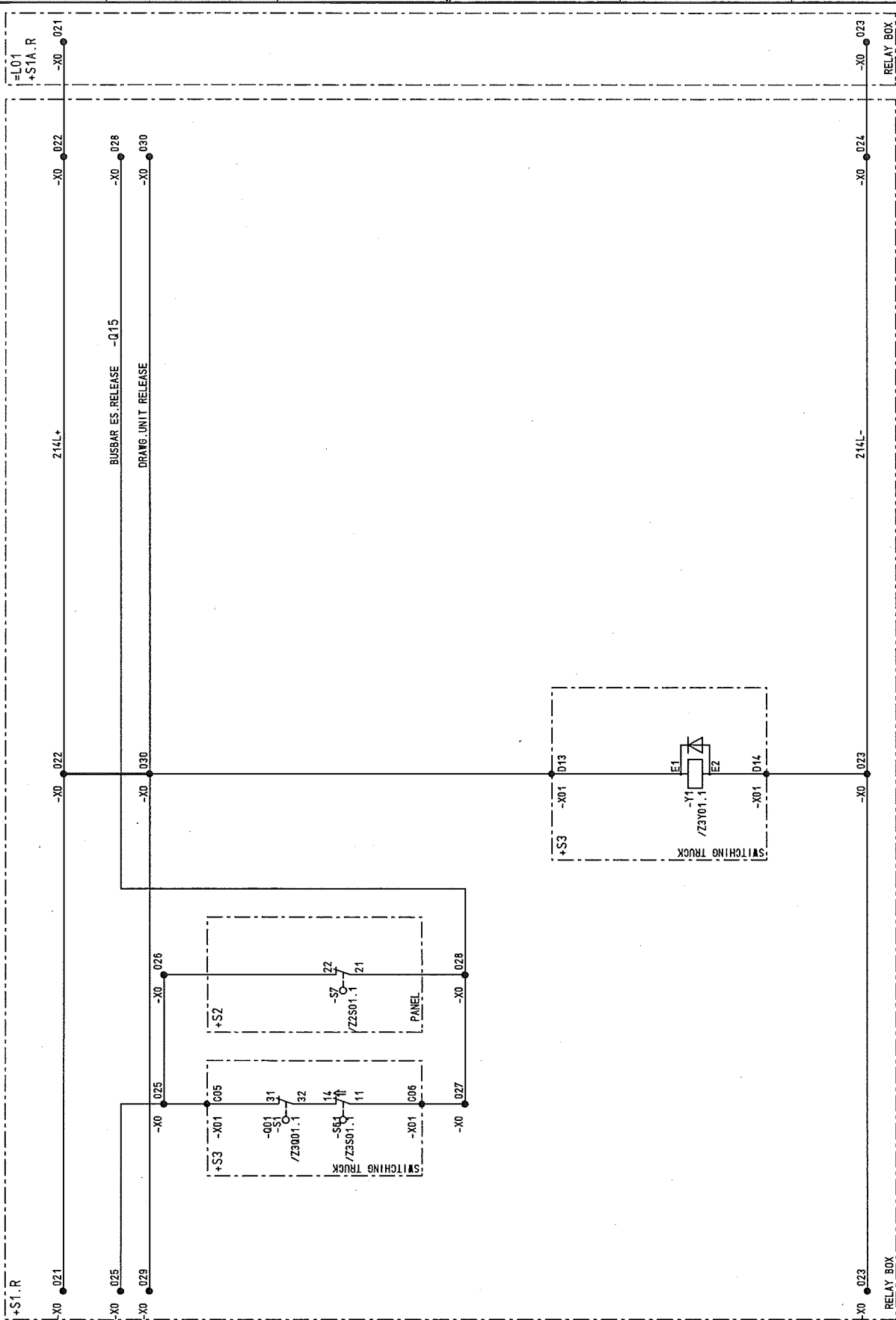
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01	Approval	20.09.2005	AD	Check	Adom	SUBSTATION T80	PANEL			Sheet 12
NO	Alteration	Date	Name	Std.	Iss. for	Iss. by:	021	D009781.02.621-3.AHA	Typ: 11	Star Point
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POWER SUPPLY
ARC DETECTOR

PROTECTION
START



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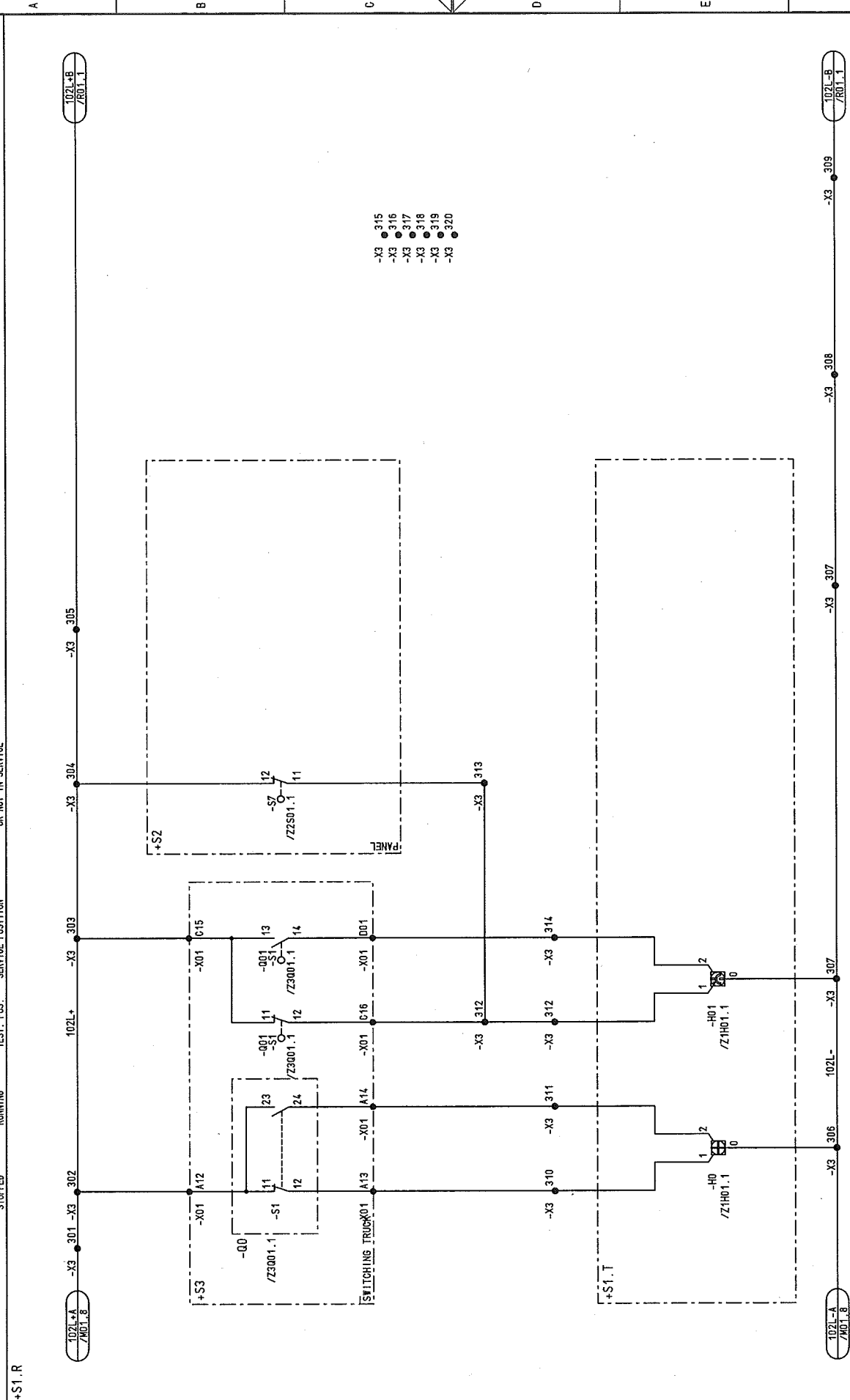
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RELAY BOX

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01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.	

ISS. BY:	ISS. FOR:	ISS. DATE:	ISS. NO.:

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50.3023.01.A3.741.233	S=L021	Typ: 11	Star Point
D009781.02.621-3.AHA		Sheet 12	59Sh.



- X3 315
- X3 316
- X3 317
- X3 318
- X3 319
- X3 320

1	2	3	4	5	6	7	8
CIRCUIT-BREAKER							
OFF							
TRUCK POS.							
STOPPED							
RUNNING							
TEST. POS.							
SERVICE POSITION							
OR NOT IN SERVICE							

+S1.R

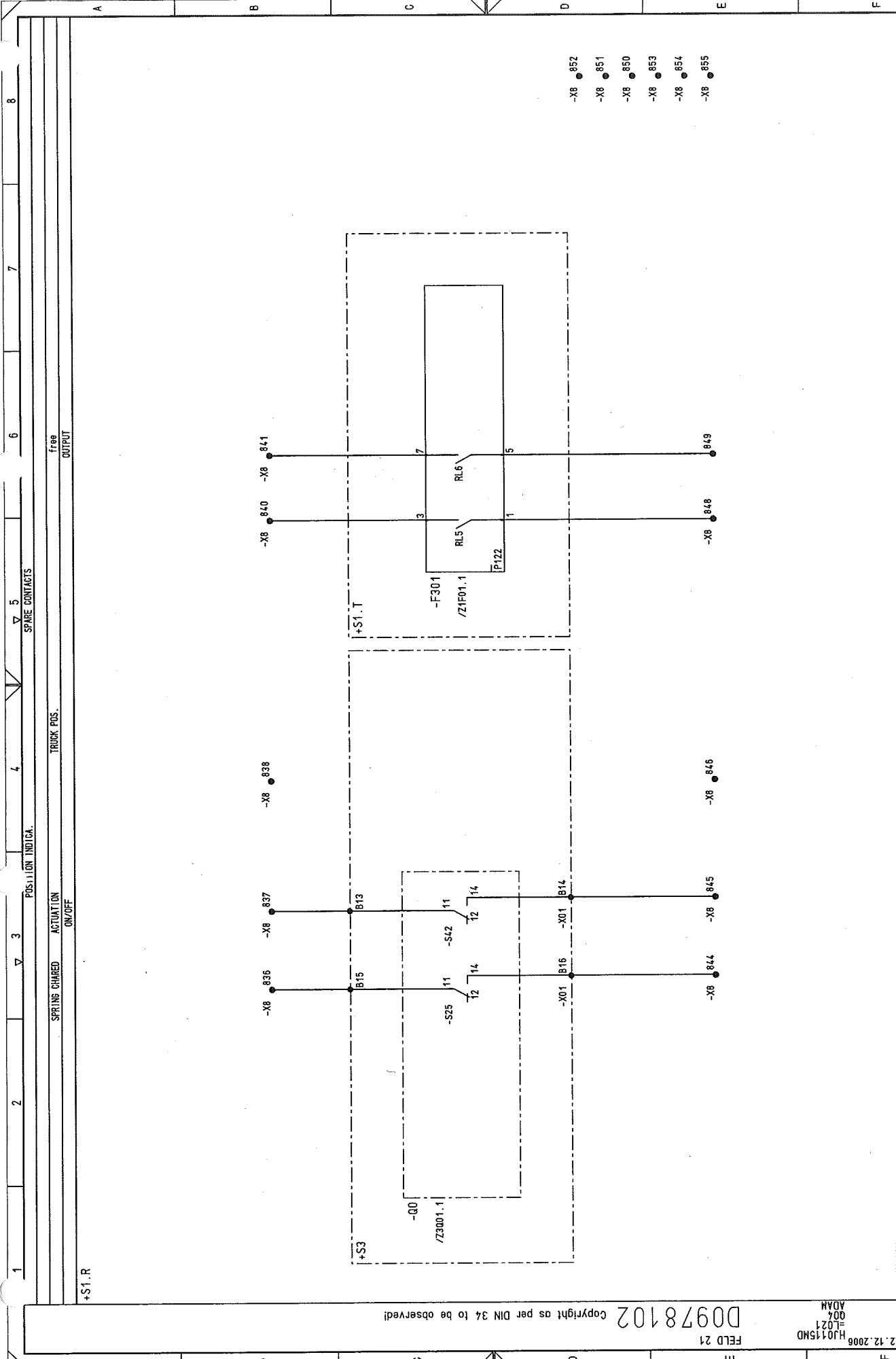
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01	Approval	20.09.2005	AD	Check	Adam					
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						021				
						Iss. by:				
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						D009781.02.621-3.AHA				
						Sheet 17				
						59Sh.				

22.12.2006
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FELD 21

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RELAY BOX

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brüner t	50.3023.01
01	Approval	20.09.2005	AD	Check	Adom	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.



CIRCUIT DIAGRAM
SIGNALLING
PANEL

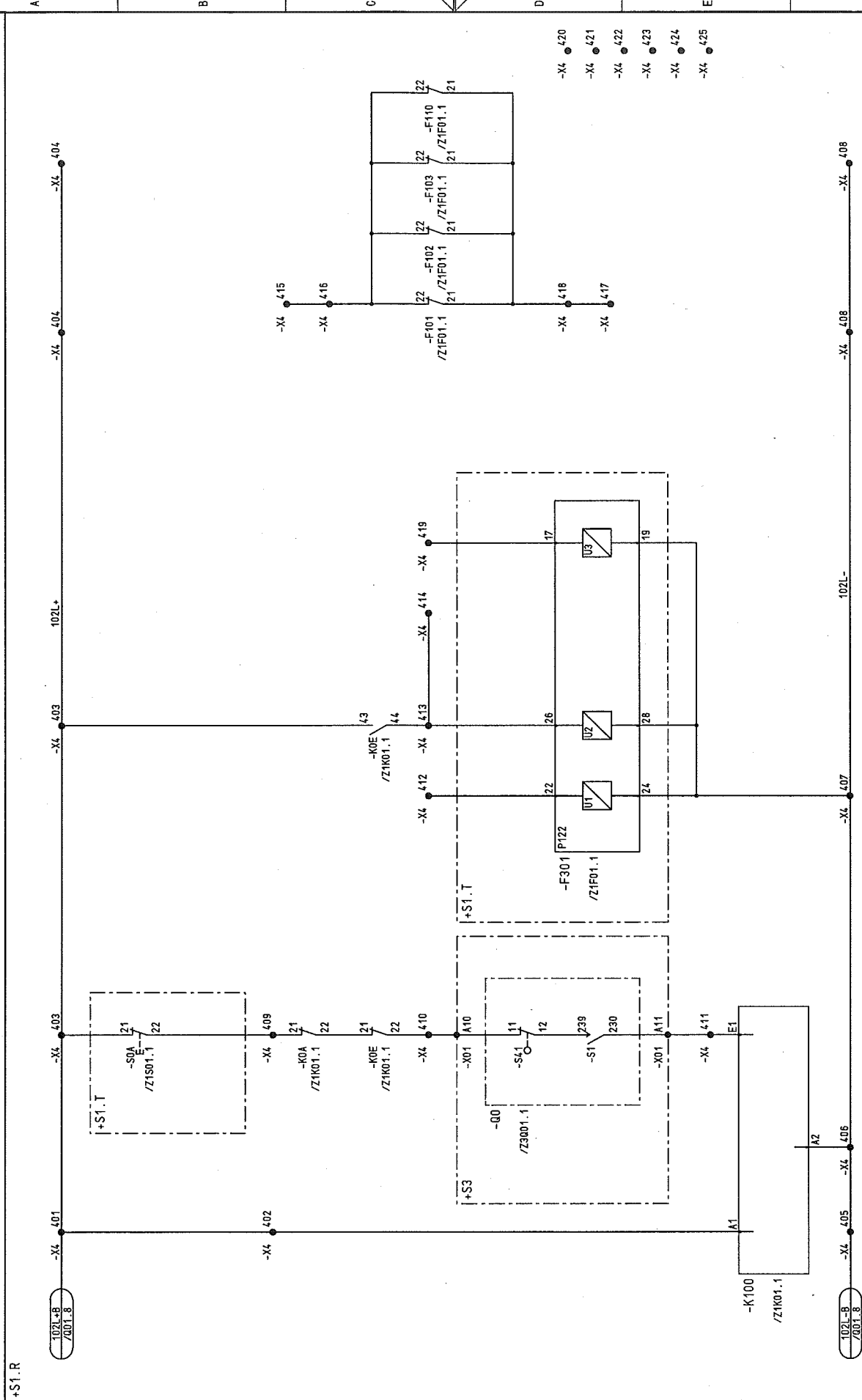
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Typ: 11
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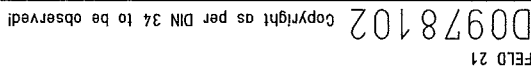
D009781.02.621-3.AHA

Sheet 18

59Sh.



1	2	3	4	5	6	7	8
BREAKER TRIPPING				CIRCUIT-BREAKER		M.C.B. TRIPPED	
SPARE				REMOTE ON		LOCAL ON	
SPARE				SPARE		MOTOR DRIVE	
SPARE				SPARE		CONTROL	
SPARE				SPARE		PROTECTION	



003	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSTICE/SLOVAKIA
002	Fact.-Rev.	09.11.2005	AD	Drawn	Brumert	50.3023.01
001	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T60
000	Approval	Date	Name	Std.	Orla:	ISS.

AREVA

Typ: 11
Star Point

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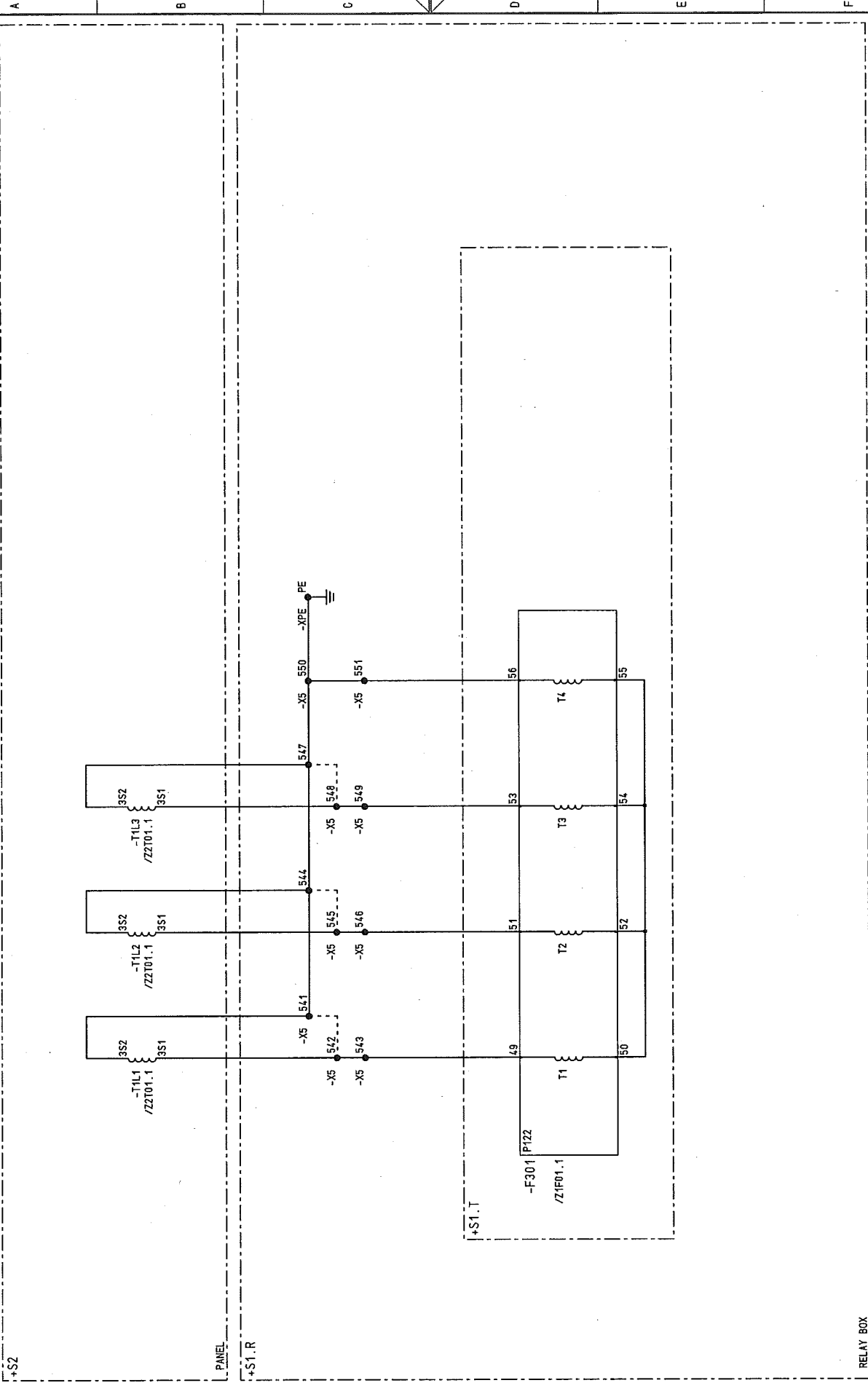
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PROTECTION

CURRENT

L1 L2 L3 N



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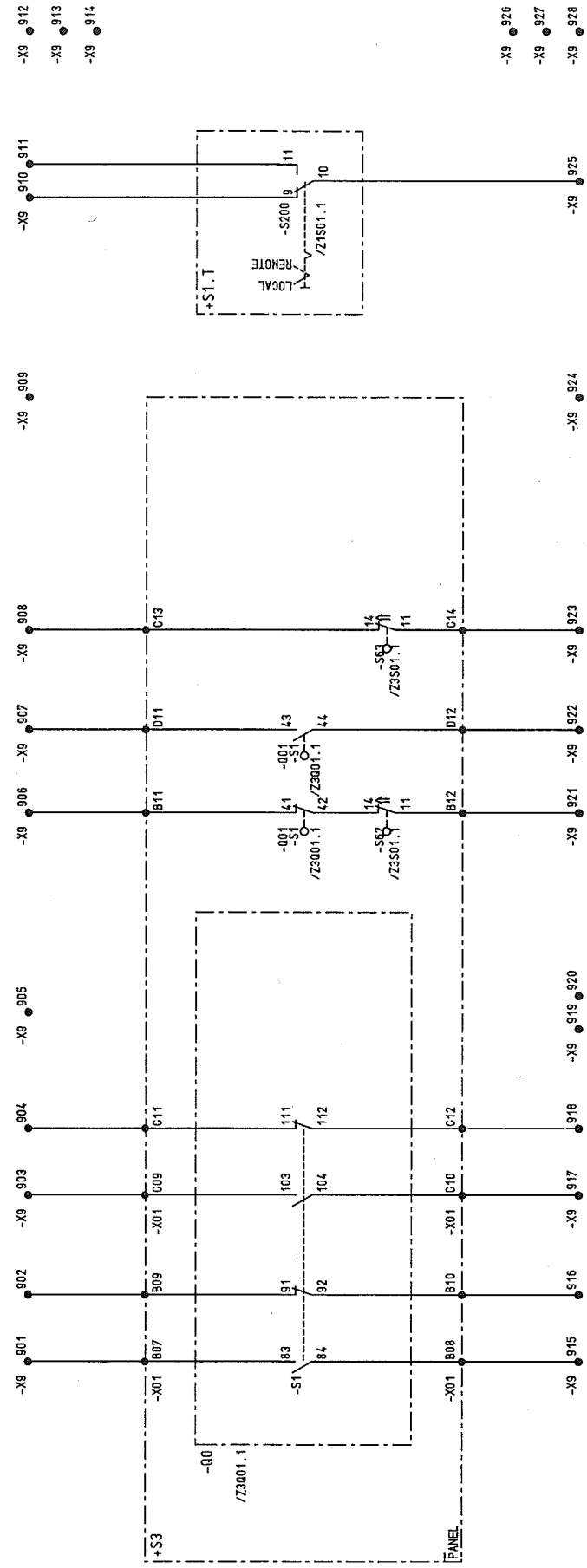
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02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert	50.3023.01	CURR. TRANSF.		/S02
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80	PANEL		Sheet 20
NO.	Alteration	Date	Iss. for	Iss. by:	Orig.		D009781.02.621-3.AHA	59Sh.

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33	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01.A3.741.233		S =L021	
	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01			PANEL			/ ZF01	
11	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80			Type:	11			Sheet 23
10.	Alteration	Date	Name	Std.		Orig.:			Iss.by:		Star Point	D009781.02.621-3.AHA	59Sh.

1		2		3		4		5		6		7		8	
STUCK-TITEL		DESCRIPTION, DESIGN, TECHNICAL DATA		MANUFACTURER, TYPE, ORDERING DATA		MOUNTING		APPA. DESIG.		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT		(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	
APPLICATION		SETTINGS		ON/OFF		MOUNTING		BTM IDENTIFIER							
1	STELLUNGSMELDER	MANUF.: BRESSING	PO NO.: EST-L-1746-08-330-21	TYPE EST-L											
	RUECKMELDER	TRENNSCHALTER													
			: 220VAC/220VDC	TYP											
	TECHNICAL COMPONENTS														
	APPLICATION														
	CIRCUIT-BREAKER	ON/OFF		MOUNTING	+ST.1										
1	STELLUNGSMELDER	MANUF.: BRESSING	PO NO.: EST-L-1746-08-231-21	TYPE EST-L											
	RUECKMELDER	SCHALTWAGEN													
			: 220VAC/220VDC	TYP											
	TECHNICAL COMPONENTS														
	APPLICATION														
	SWITCHING TRUCK	SERVICE POS. TEST POS.		MOUNTING	+ST.1										

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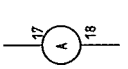
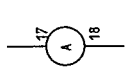
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Fact.-Rev.		06.11.2005 AD		Drawn Bräunert		50.3023.01		PANEL		Typ: 11		Star Point		Sheet 25	
Approval		20.09.2005 AD		Check Adom		SUBSTATION T80		Iss. by:		D009781.02..621-3.AHA		59Sh.		8	
Alteration		Date		Name/Std.		Orig.		Iss. for		D009781.02..621-3.AHA		59Sh.		8	

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Stock- IDTY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	1	2	3	4	5	6	7	8	REMARK
1	TIME RELAY RUECKFALLVERZOEGERT 2 SEC VOLTAGE : 220V DC TECHNICAL COMPONENTS	MANUF.: SCHIELE PO NO.: TYPE MFS MOUNTING : BTM IDENTIFIER : -T3									
1	TIME RELAY ANSPRECHVERZOEGERT 30 MIN VOLTAGE : 220V DC TECHNICAL COMPONENTS	MANUF.: SCHIELE PO NO.: TYPE MFS MOUNTING : BTM IDENTIFIER : -T3									
3	AUXILIARY CONTACTOR MANUF.: Schneider Electric PO NO.: CA3-KN31 M03 RATED VOLTAGE : 220VDC TECHNICAL COMPONENTS	MANUF.: Schneider Electric PO NO.: CA3-KN31 M03 MOUNTING : BTM IDENTIFIER : -T4									
6	AUXILIARY CONTACTOR MIT HILFSSCHALTER LA1 KN40 RATED VOLTAGE : 220VDC TECHNICAL components per device	Manuf. : Schneider Electric Ord. No. : CA3-KN40 M03 MOUNTING : BTM IDENTIFIER : -K3 -K4 -K13									
AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA							
Fact.-Rev.	09.11.2005 AD	Drawn/Brünnert	50.3023.01	50.3023.01.A3.741.233							
Approval	20.06.2005 AD	Check/Adom	021	D009781.02.621-3.AHA							
Alteration	Date	Nome/Std.	Iss.by:	Stor Point							
1	2	3	4	5	6	7	8				

1	2	3	4	5	6	7	8
DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	APP. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				
1	MEAS. UNIT MANUF.: WEIGEL PO NO.: BIMETALLIC AMMETER SCALE: 20% OVERLOAD TRANSFORMER CONNECTION 1250A/1A MEASUREMENT VARIABLE: 1A TECHNICAL COMPONENTS	TYPE B1072K					
	APPL. ON CURRENT MEAS L2	SETTINGS	MOUNTING	BTM IDENTIFIER			
			+S1.T	-P402			
2	MEAS. UNIT MANUF.: WEIGEL PO NO.: MOVING-IRON AMMETER SCALE: 100 % OVERLOAD TRANSFORMER CONNECTION 1250A/1A MEASUREMENT VARIABLE: 1A TECHNICAL COMPONENTS	TYPE E072K					
	APPL. ON CURRENT MEAS L1	SETTINGS	MOUNTING	BTM IDENTIFIER			
			+S1.T	-P401			
	APPL. ON CURRENT MEAS L3	SETTINGS	MOUNTING	BTM IDENTIFIER			
			+S1.T	-P403			

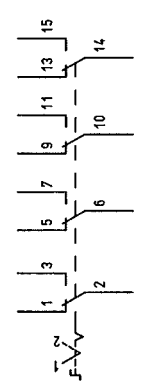
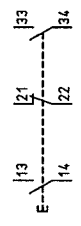


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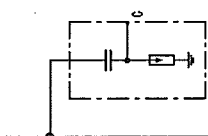
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02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert	50.3023.01	PANEL				Sheet 28
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80	021				59Sh.
NO.	Alteration	Date	Named	Std.	Orig.	Iss. for	Iss. by:	Typ: 11	Star Point	D009781.02.621-3.AHA

SUCK-TITY		DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.		APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		WITH REFERENCES TO DETAILS		REMARK	
1		PB		MANUF.: Schneider Electric PO NO.: RED-AND-WHITE CIRCLE		TYPE HARMONY Style 5					
		SWITCHING CONTACTS : 2S, 10		CONTACT SEQUENCE :							
1		TECHNICAL COMPONENTS		TYP		ORDER NO					
1		RED-AND-WHITE CIRCLE		S071457		ZB5-AA432					
1		FIXING FLANGE		S071460		ZB5-AZ009					
1		AUXIL SWITCH (NO)		S071461		1S (NO)					
1		AUXIL SWITCH (NC)		S071462		10 (NC)					
		APPLICATION		SETTINGS		MOUNTING		BTW IDENTIFIER			
		CIRCUIT-BREAKER		OFF		+ST.1		-S0A			
1		SWITCH		MANUF.: SONTHEIMER PO NO.: WS4/8ZM/NS		TYPE WS4/8ZM/NS-T1.0511+T					
		INSCRIPTION:		2-REMOTE							
		1=LOCAL									
		SWITCHING CONTACTS : 4		POSITIONS : 2							
		TECHNICAL COMPONENTS		TYP		ORDER NO					
		APPLICATION		SETTINGS		MOUNTING		BTW IDENTIFIER			
		DOUBLE THROW SWITCH LOCAL/OFF/REMOTE				+ST.1		-S200			



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DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		SETTINGS		MANUFACTURER, TYPE, ORDERING DATA 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			
3		IVIS POST INSULATOR		MANUF.: AREVA/SW		TYPE IVIS									
		TECHNICAL COMPONENTS		TYP		ORDER NO									
		APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER							
		CAP. TAPPING		+S2		+S2		-CL1		/T01.2					
		CAP. TAPPING		+S2		+S2		-CL2		/T01.4					
		CAP. TAPPING		+S2		+S2		-CL3		/T01.6					

03	AS BUILT	05.12.2006 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.233	S	L021	/ ZC01
02	Fact.-Rev.	09.11.2005 AD	Drawn	Bräuner t	50.3023.01					
01	Approval	20.09.2005 AD	Check	Adam	SUBSTATION T80	PANEL	Typ: 11			Sheet 131
NO.	Alteration	Date	Name	Std.	Orig.	iss.by:	Star Point			59Sh

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NO.	Date	Name/Std.	Iss. for	Iss. by:	PANEL	Betriebsmittelpian	50.3023.01.A3.741.233	S1=L021	/ ZP01
03	AS BUILT	06.12.2006 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA				
02	Fact.-Rev.	09.11.2005 AD	Drawn/Bräunert	50.3023.01					
01	Approval	20.03.2005 AD	Check Adam	SUBSTATION T80					
Alteration				Orig:					

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DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS MOUNTING APPA. DESIG.	MANUFACTURER, TYPE, ORDERING DATA	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
INDICATOR INTELLIGENT	MANUF.: AREVA Sachsenwerk PO NO.: VOLT INFORMATION SYSTEM	TYPE IVIS		
TECHNICAL COMPONENTS : TYP ORDER NO				
APPLICATION IVIS	SETTINGS MOUNTING +SZ	BTM IDENTIFIER -P100		

1		2		3		4		5		6		7		8	
TITLE		DESCRIPTION, DESIGN, TECHNICAL DATA		SETTINGS		MANUFACTURER, TYPE, ORDERING DATA		APP. DESIG.		APPARATUS SYMBOL DIAGRAM		REFERENCE TO DETAILS		WITH REFERENCES TO DETAILS	
APPLICATION		MANUFACTURER, TYPE, ORDERING DATA		MOUNTING		MOUNTING		MOUNTING		REFERENCE TO INDIVIDUAL TREATMENT		CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.		REMARK	
1		AUXILIARY SWITCH		MANUF.: AREVA		TYPE		TYPE		TYPE		TYPE		TYPE	
PLUG PULLED		PO NO.:		PO NO.:		PO NO.:		PO NO.:		PO NO.:		PO NO.:		PO NO.:	
TECHNICAL COMPONENTS		TYP		TYP		TYP		TYP		TYP		TYP		TYP	
APPLICATION		SETTINGS		MOUNTING		BTM IDENTIFIER		BTM IDENTIFIER		BTM IDENTIFIER		BTM IDENTIFIER		BTM IDENTIFIER	
PLUG PULLED		+S2		+S2		-S7		-S7		-S7		-S7		-S7	
PULLED		PULLED		PULLED		PULLED		PULLED		PULLED		PULLED		PULLED	
PLUGGED		PLUGGED		PLUGGED		PLUGGED		PLUGGED		PLUGGED		PLUGGED		PLUGGED	
12		12		12		12		12		12		12		12	
22		22		22		22		22		22		22		22	
32		32		32		32		32		32		32		32	
11		11		11		11		11		11		11		11	
21		21		21		21		21		21		21		21	
31		31		31		31		31		31		31		31	
/001.4		/001.4		/001.4		/001.4		/001.4		/001.4		/001.4		/001.4	
/002.7		/002.7		/002.7		/002.7		/002.7		/002.7		/002.7		/002.7	
150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233		150.3023.01.A3.741.233	
S1=021		S1=021		S1=021		S1=021		S1=021		S1=021		S1=021		S1=021	
/ Z2S01		/ Z2S01		/ Z2S01		/ Z2S01		/ Z2S01		/ Z2S01		/ Z2S01		/ Z2S01	
Sheet33		Sheet33		Sheet33		Sheet33		Sheet33		Sheet33		Sheet33		Sheet33	
D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA		D009781.02.621-3.AHA	
59Sh.		59Sh.		59Sh.		59Sh.		59Sh.		59Sh.		59Sh.		59Sh.	

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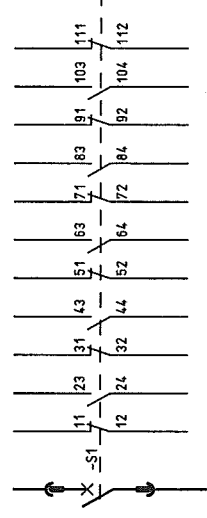
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DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)													
1	CIRCUIT-BREAKER MANUF.: AREVA PO NO.:	REFERENCES FOR GROUP REPRES. IN CIRCUIT DIAGRAM REFERENCES TO SEP. DOCUMENTS WITH DETAILS OF REPRES.													
<div> <div> TECHNICAL COMPONENTS <table border="1"> <thead> <tr> <th>APPLICATION</th> <th>SETTINGS</th> <th>MOUNTING</th> <th>BTM IDENTIFIER</th> </tr> </thead> <tbody> <tr> <td>CIRCUIT-BREAKER</td> <td></td> <td>+S3</td> <td>-00</td> </tr> </tbody> </table> </div> <div> TYP 1 AUXILIARY SWITCH 8-POLE HERST.: AREVA BEST. NR.: </div> </div>								APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER	CIRCUIT-BREAKER		+S3	-00
APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER												
CIRCUIT-BREAKER		+S3	-00												
<div> <div> TECHNISCHE KOMPONENTEN <table border="1"> <thead> <tr> <th>VERBODINGSDECK</th> <th>EINSELLEDATEN</th> <th>EINBAUORT</th> <th>BTM-KENNZEICHEN</th> </tr> </thead> <tbody> <tr> <td>AUXILIARY SWITCH</td> <td></td> <td>+S3</td> <td>-001</td> </tr> </tbody> </table> </div> <div> TYP 1 8-POLE HERST.: AREVA BEST. NR.: </div> </div>								VERBODINGSDECK	EINSELLEDATEN	EINBAUORT	BTM-KENNZEICHEN	AUXILIARY SWITCH		+S3	-001
VERBODINGSDECK	EINSELLEDATEN	EINBAUORT	BTM-KENNZEICHEN												
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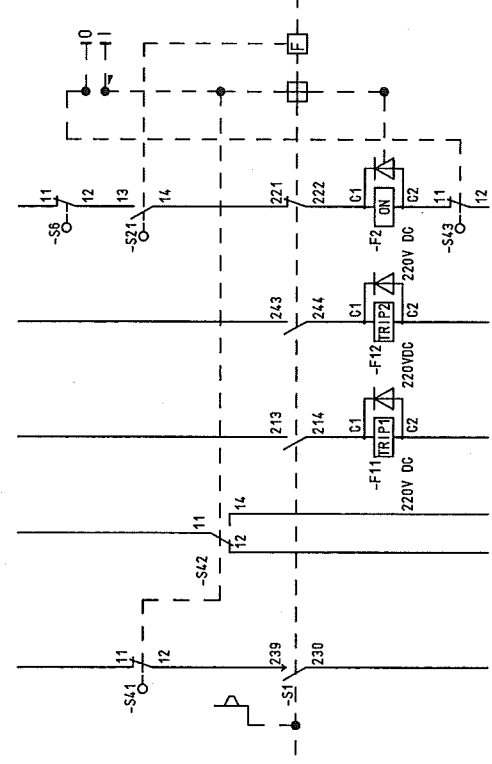
FELD 21

-S1 AUXILIARY SWITCH

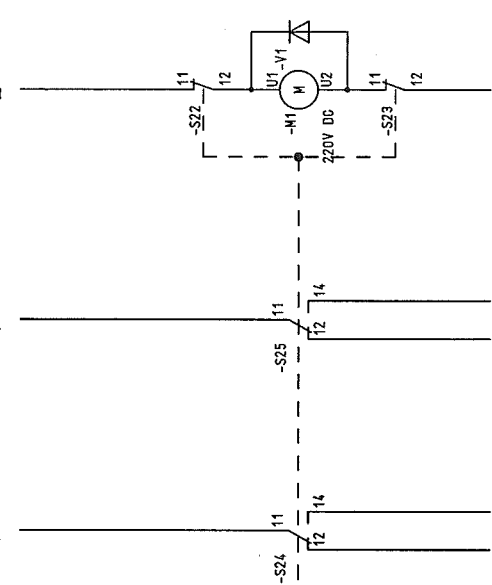


CIRCUIT-BREAKER

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



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



03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005 AD	Drawn	Brünnert	50.3023.01
01	Approval	20.09.2005 AD	Check	Adm	SUBSTATION T80
NO.	Alteration	Date	Named	Std.	Orig.

iss.for	iss.by:	PANEL	021
AREVA			

LIST OF EQUIPMENT

50.3023.01.A3.741.233	S=1021
Typ: 11	Star Point
D009781.02.621-3.AHA	
Sheet 36	
/ Z3002	
59Sh.	

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303	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50_3023.01.A3.741.233	S = L021
	Fact.-Rev.	09.11.2005	AD	Drawn	Brünert	50_3023.01					
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL			
NO.	Alteration	Date	Name	Sid.		Orig.:		iss. by:		Type: 11 Ster Point	D009784_02_621-3_AHA
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AREVA

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NO.	CABLE	WIRES USED	SHEET STATE	CABLE-TYPE SECTION	CORES	-ROUTE	CIRCUIT DIAGRAM
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<div style="text-align: center;">STANDARD: H07V-K 1.5MM2 SW STANDARD: UK5N</div>							
<div style="text-align: center;">CABLE MATERIAL</div>							
<div style="text-align: center;">COLOR</div>							
<div style="text-align: center;">TERM. TYPE</div>							
<div style="text-align: center;">DESTINAT. DESIG. INTERN</div>							
<div style="text-align: center;">CORES/ LINE</div>							
<div style="text-align: center;">REMARK</div>							
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22.12.2006

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA
02	Fact -Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.	



TERMINAL DIAGRAM

50.3023.01.A3.741.233	V	=L021
Typ: 11	Star Point	D009781.02.621-3-AHA
Sheet 44		59Sh

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NO	CABLE	WIRES USED SHEET STATE												CABLE-TYPE SECTION	CORES	-ROUTE	CIRCUIT DIAGRAM		CABLE MATERIAL	Ø	COLOR	TERM. TYPE	REMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NO. CABLE	WIRES USED SHEET/STATE	CABLE-TYPE SECTION	CORES	-ROUTE	CIRCUIT DIAGRAM	CABLE MATERIAL	TERM. TYPE
					INSTALLATION	H07V-K 1.5MM2 SW	STANDARD: MTK-P/P
						POS.: 0 H05V-K 1.0MM2 SW	

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

[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	DC220V L+ 2 2.5MM2	H07V-K SW	-X0	12 -F101	1 -F102	1 -F103			
601	DC220V L- 2 2.5MM2	H07V-K SW	-X0	14 -F101	3 -F102	3 -F103			
M01	1 1.5MM2	H07V-K SW	-X1	117 -K0A	14 -K200				
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	03L- 1 1.5MM2	H07V-K SW	-X8	816 -K0A	A2 -K0E	A2			
003	03L+ 1 1.5MM2	H07V-K SW	-X8	809 -F102	12 -F103	12			
003	1 1.5MM2	H07V-K SW	-X8	826 -F102	11 -F103	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		
R01	1 1.5MM2	H07V-K SW	-X4	418 -F101	21 -F102	21 -F103	21		

NO.	01	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL K03T0E/SLOVAKIA	ISS. BY:	4	50.3023.01.A3.741.233	50.3023.01.A3.741.233	V1 -L021	7.010	Sheet 51
02	Fact. -Rev.	09.11.2005	AD	Drawn	Bräunert		50.3023.01	RELAY BOX	6			+ST.R		
03	Approval	20.09.2005	AD	Check	Adam		SUBSTATION T80	PANEL	7					
04	Alteration	Date	Name	Std.				1021	8					
D009781.02.621-3.AHA														

Copyright as per DIN 34 to be observed!

ADAM
H0115MD
L021+ST

FELD 21

D00978102

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
M021	110L- 1.5MM2	H07V-K SW	-X2	209 -K02A	A2 -K02E	A2 -K04A	A2 -K04E	A2 -K021A	A2 -K021E
M022	1 1.5MM2	H07V-K SW		-K3	A1 -T3	15			A2
M022	1 1.5MM2	H07V-K SW		-K4	A1 -T4	15			
M022	1 1.5MM2	H07V-K SW		-K02A	33 -K04E	13 -K021E	53 -K200	62	
M022	1 1.5MM2	H07V-K SW		-K02E	54 -T4	A1			
M022	1 1.5MM2	H07V-K SW		-K02E	63 -K021E	54			
M022	1 1.5MM2	H07V-K SW		-K04E	14 -K021A	53			
M022	1 1.5MM2	H07V-K SW		-KT3	13 -T3	Y1			
M022	1 1.5MM2	H07V-K SW		-KT3	14 -T3	Z2			
M022	110L+ 1.5MM2	H07V-K SW	-X2	207 -K02E	53 -T3	18 -T3	A1 -T4	18	
M022	110L- 1.5MM2	H07V-K SW	-X2	210 -K3	A2 -K4	A2 -KT3	A2 -T3	A2 -T4	A2
M022	1 1.5MM2	H07V-K SW	-X2	224 -K02A	34 -K02E	64 -K021A	54		
M023	1 1.5MM2	H07V-K SW		-K3	14 -K04A	13 -K04A	23		
M023	1 1.5MM2	H07V-K SW		-K3	34 -K4	13			
M023	1 1.5MM2	H07V-K SW		-K3	44 -K04A	53			
M023	1 1.5MM2	H07V-K SW		-K4	14 -K02E	13 -K02E	23		
M023	1 1.5MM2	H07V-K SW		-K02A	13 -K04A	54			
M023	1 1.5MM2	H07V-K SW		-K02A	24 -K04A	63			
M023	1 1.5MM2	H07V-K SW		-K02E	14 -K021A	13			
M023	1 1.5MM2	H07V-K SW		-K02E	24 -K021A	23			
GROSS CONNECT. LIST									
RELAY BOX									
PANEL									
021									
11									
Star Point									
D009781.02.621-3.AHA									
59Sh.									

Copyright as per DIN 34 to be observed!

D00978102

FIELD 21

HJ015MD
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ADAH

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	JUS STEEL K0510E/SLOVAKIA	ISS. BY:	AREVA	GROSS CONNECT. LIST	50.3023.01.A3.741.233	V = 021
02	Fact.-Rev.	09.11.2005	AD	Drawn	Brünnert	50.3023.01	ISS. BY:	AREVA	RELAY BOX		+S1.R
01	Approval	20.09.2005	AD	Check	Adom	SUBSTATION T80	ISS. BY:	AREVA	PANEL		/ 0101
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	ISS. BY:	AREVA	021		Sheet 52
1							ISS. BY:	AREVA			59Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
M023	1 1.5MM2	H07V-K SW	-K02E	33 -K021A	34				
M023	1 1.5MM2	H07V-K SW	-K02E	43 -K021A	44				
M023	1 1.5MM2	H07V-K SW	-K04A	14 -K021E	13				
M023	1 1.5MM2	H07V-K SW	-K04A	24 -K021E	23				
M023	1 1.5MM2	H07V-K SW	-K04A	33 -K021E	34				
M023	1 1.5MM2	H07V-K SW	-K04A	43 -K021E	44				
M023	102L- 1 1.5MM2	H07V-K SW	235 -K04A	34 -K04A	44				
M023	102L- 1 1.5MM2	H07V-K SW	241 -K02E	34 -K02E	44				

03	AS BUILT	05.12.2005 AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	CROSS CONNECT. LIST	50.3023.01.A3.741.233	V -L021	8
02	Fact.-Rev.	09.11.2005 AD	Drawn/Brüner		50.3023.01	RELAY BOX		451.R	7
01	Approval	20.06.2005 AD	Check/Adm		SUBSTATION T80	PANEL		Typ: 11	6
NO.	Alteration	Date	Name/Std.	Iss.for	Iss.by:		D009781.02.621-3.AHA	Star Point	59Sh

Copyright as per DIN 34 to be observed!

D00978102
FELD 21
H0145HD
0102
ADAM

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

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

A		B		C		D		E		F	
+	+	+	+	+	+	+	+	+	+	+	+
1	-X1 /L01.2 H05V-K 1.0MM2 SW	101	-X8 /D02.5 H05V-K 1.0MM2 SW	818	-X1 /M01.5 H05V-K 1.0MM2 SW	127	-X3 /D01.3 H05V-K 1.0MM2 SW	314	1		
2	-X1 /L01.2 H05V-K 1.0MM2 SW	102	-X8 /D04.2 H05V-K 1.0MM2 SW	835	-X1 /M01.5 H05V-K 1.0MM2 SW	109	-X8 /D02.6 H05V-K 1.0MM2 SW	804	2		
3	-X1 /L01.2 H05V-K 1.0MM2 SW	116	-X8 /D04.2 H05V-K 1.0MM2 SW	842	-X1 /M01.5 H05V-K 1.0MM2 SW		-X8 /D02.6 H05V-K 1.0MM2 SW	819	3		
4	-X1 /L01.2 H05V-K 1.0MM2 SW	110	-X8 /D04.2 H05V-K 1.0MM2 SW	843	-X1 /M01.5 H05V-K 1.0MM2 SW		-X8 /D02.6 H05V-K 1.0MM2 SW	821	4		
5	-X1 /L01.2 H05V-K 1.0MM2 SW	121	-X0 /D01.3 H05V-K 1.0MM2 SW	5	-X0 /P01.2 H05V-K 1.0MM2 SW	025	-X0 /D02.6 H05V-K 1.0MM2 SW		5		
6	-X1 /L01.2 H05V-K 1.0MM2 SW	123	-X0 /D01.3 H05V-K 1.0MM2 SW	7	-X0 /P01.2 H05V-K 1.0MM2 SW	027	-X0 /D02.6 H05V-K 1.0MM2 SW		6		
7	-X8 /D02.8 H05V-K 1.0MM2 SW	806	-X9 /D01.2 H05V-K 1.0MM2 SW	901	-X9 /P01.3 H05V-K 1.0MM2 SW		-X8 /D04.4 H05V-K 1.0MM2 SW	839	7		
8	-X8 /D02.8 H05V-K 1.0MM2 SW	822	-X9 /D01.2 H05V-K 1.0MM2 SW	915	-X9 /P01.3 H05V-K 1.0MM2 SW		-X8 /D04.4 H05V-K 1.0MM2 SW	847	8		
9	-X8 /D02.8 H05V-K 1.0MM2 SW	823	-X9 /D01.2 H05V-K 1.0MM2 SW	902	-X9 /P01.3 H05V-K 1.0MM2 SW	903	-X8 /D04.4 H05V-K 1.0MM2 SW		9		
10	-X4 /D01.3 H05V-K 1.0MM2 SW	410	-X9 /D01.2 H05V-K 1.0MM2 SW	916	-X9 /P01.3 H05V-K 1.0MM2 SW	917	-X9 /D01.5 H05V-K 1.0MM2 SW		10		
11	-X4 /D01.3 H05V-K 1.0MM2 SW	411	-X9 /D01.4 H05V-K 1.0MM2 SW	906	-X9 /P01.3 H05V-K 1.0MM2 SW	904	-X9 /D01.5 H05V-K 1.0MM2 SW	907	11		
12	-X3 /D01.2 H05V-K 1.0MM2 SW	302	-X9 /D01.4 H05V-K 1.0MM2 SW	971	-X9 /P01.3 H05V-K 1.0MM2 SW	918	-X9 /D01.5 H05V-K 1.0MM2 SW	922	12		
13	-X3 /D01.2 H05V-K 1.0MM2 SW	310	-X8 /D04.3 H05V-K 1.0MM2 SW	837	-X9 /P01.3 H05V-K 1.0MM2 SW	908	-X0 /D01.4 H05V-K 1.0MM2 SW	030	13		
14	-X3 /D01.2 H05V-K 1.0MM2 SW	311	-X8 /D04.3 H05V-K 1.0MM2 SW	845	-X9 /P01.3 H05V-K 1.0MM2 SW	923	-X0 /D01.4 H05V-K 1.0MM2 SW	023	14		
15	-X8 /D02.4 H05V-K 1.0MM2 SW	803	-X8 /D04.3 H05V-K 1.0MM2 SW	836	-X3 /D01.3 H05V-K 1.0MM2 SW	303	-X3 /D01.3 H05V-K 1.0MM2 SW		15		
16	-X8 /D02.4 H05V-K 1.0MM2 SW	817	-X8 /D04.3 H05V-K 1.0MM2 SW	844	-X3 /D01.3 H05V-K 1.0MM2 SW	312	-X3 /D01.3 H05V-K 1.0MM2 SW		16		
+									+		

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

FIELD 21
 D0978102

HU015MD
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 ADAM

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	150.3023.01.A3.741.233	V	L021	8
02	Fact.-Rev.	09.11.2005	AD	Drawn/Brüner1	50.3023.01		CIRCUIT-BREAKER			+ST.R	
01	Approval	20.09.2005	AD	Check/Adam	SUBSTATION T80		PANEL				
NO.	Alteration	Date	Name/Std.	Iss.for	Iss.by:	Orig.	021	Typ: 11	Star Point	D009781.02.621-3.AHA	59Sh

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.OHW2	H05V-K SW	-X01	B05 -S1	-00 71				
D01	0 1.OHW2	H05V-K SW	-X01	B06 -S1	-00 72				
L01	101L+ 0 1.OHW2	H05V-K SW	-X01	A01 -S22	-00 11				
L01	101L- 0 1.OHW2	H05V-K SW	-X01	A02 -S23	-00 12				
N01	0 1.OHW2	H05V-K SW	-F11	C1 -S1	-00 214				
N01	0 1.OHW2	H05V-K SW	-F2	C1 -S1	-00 222				
N01	0 1.OHW2	H05V-K SW	-F2	C2 -S43	-00 11				
N01	0 1.OHW2	H05V-K SW	-S1	Z21 -S21	-00 14				
N01	0 1.OHW2	H05V-K SW	-S21	13 -S6	-00 12				
N01	0 1.OHW2	H05V-K SW	-X01	A03 -S1	-00 213				
N01	0 1.OHW2	H05V-K SW	-X01	A04 -F11	-00 C2				
N01	0 1.OHW2	H05V-K SW	-X01	A05 -S6	-00 11				
N01	0 1.OHW2	H05V-K SW	-X01	A06 -S43	-00 12				
P01	0 1.OHW2	H05V-K SW	-S1	-B01 32 -S61	14				
P01	0 1.OHW2	H05V-K SW	-X01	C05 -S1	-001 31				
P01	BUSBAR ES RELEASE 0 1.OHW2	H05V-K SW	-X01	C06 -S61	11				
P01	DRAWING UNIT RELEASE 0 1.OHW2	H05V-K SW	-X01	D13 -Y1	E1				
P01	214L- 0 1.OHW2	H05V-K SW	-X01	D14 -Y1	E2				
O01	102L+ 0 1.OHW2	H05V-K SW	-X01	A12 -S1	-00 11 -S1 23				
O01	0 1.OHW2	H05V-K SW	-X01	A13 -S1	-00 12				

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FEED 21
D0978102

ADAM
=021+S3
H0115MD
22.12.2006

AS BUILT Date 13.07.2005 US STEEL KOSICE/SLOVAKIA

Fact.-Rev. 50.3023.01

Approval 20.09.2005 AD Drawn Bräuner t

Alteration Date NormStd. Check Adam SUBSTATION T80

Iss.for Iss.by: Onq:

GROSS CONNECT. LIST SWITCHING TRUCK PANEL 021

V=L021 +S3 / Q30 Sheet56

Typ: 11 Star Point D009781.02.621-3.AHA 395SL

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
001	0 1.0MM2	H05V-K SW		-X01 A14 -S1	-00 24				
001	0 1.0MM2	H05V-K SW		-X01 C15 -S1	-001 11 -S1 13				
001	0 1.0MM2	H05V-K SW		-X01 C16 -S1	-001 12				
001	0 1.0MM2	H05V-K SW		-X01 D01 -S1	-001 14				
002	0 1.0MM2	H05V-K SW		-X01 A15 -S1	-00 31 -S1 43				
002	0 1.0MM2	H05V-K SW		-X01 A16 -S1	-00 32				
002	0 1.0MM2	H05V-K SW		-X01 B01 -S1	-00 44				
002	0 1.0MM2	H05V-K SW		-X01 D02 -S1	-001 21 -S1 23				
002	0 1.0MM2	H05V-K SW		-X01 D03 -S1	-001 22				
002	0 1.0MM2	H05V-K SW		-X01 D04 -S1	-001 24				
004	0 1.0MM2	H05V-K SW		-X01 B02 -S1	-00 51 -S1 63				
004	0 1.0MM2	H05V-K SW		-X01 B03 -S1	-00 52				
004	0 1.0MM2	H05V-K SW		-X01 B04 -S1	-00 64				
004	0 1.0MM2	H05V-K SW		-X01 B13 -S42	-00 11				
004	0 1.0MM2	H05V-K SW		-X01 B14 -S42	-00 14				
004	0 1.0MM2	H05V-K SW		-X01 B15 -S25	-00 11				
004	0 1.0MM2	H05V-K SW		-X01 B16 -S25	-00 14				
004	0 1.0MM2	H05V-K SW		-X01 D07 -S1	-001 33				
004	0 1.0MM2	H05V-K SW		-X01 D08 -S1	-001 34				
R01	0 1.0MM2	H05V-K SW		-S1 -00 239 -S41	-00 12				

03 AS BUILT 06.12.2006 AD Date 13.07.2005

02 Fact.-Rev. 09.11.2005 AD Drawn Brünert

01 Approval 20.09.2005 AD Check Adam

NO Alteration Date Name Sid

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T80

Orig:

iss. for

iss. by:

AREVA

CROSS CONNECT. LIST

SWITCHING TRUCK

PANEL

021

50.3023.01.A3.741.233

V =L021 +S3

/ 031

Typ: 11

Star Point

D009781.02.621-3. AHA

Sheet 57

59Sh.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
R01	0 1.0MM2	H05V-K SW	-X01	A10 -S41	-00 11				
R01	0 1.0MM2	H05V-K SW	-X01	A11 -S1	-00 230				
V01	0 1.0MM2	H05V-K SW	-S1	-001 42 -S62	14				
V01	0 1.0MM2	H05V-K SW	-X01	A07 -S24	-00 11				
V01	0 1.0MM2	H05V-K SW	-X01	A08 -S24	-00 12				
V01	0 1.0MM2	H05V-K SW	-X01	A09 -S24	-00 14				
V01	0 1.0MM2	H05V-K SW	-X01	B07 -S1	-00 83				
V01	0 1.0MM2	H05V-K SW	-X01	B08 -S1	-00 84				
V01	0 1.0MM2	H05V-K SW	-X01	B09 -S1	-00 91				
V01	0 1.0MM2	H05V-K SW	-X01	B10 -S1	-00 92				
V01	0 1.0MM2	H05V-K SW	-X01	B11 -S1	-001 41				
V01	0 1.0MM2	H05V-K SW	-X01	B12 -S62	11				
V01	0 1.0MM2	H05V-K SW	-X01	C09 -S1	-00 103				
V01	0 1.0MM2	H05V-K SW	-X01	C10 -S1	-00 104				
V01	0 1.0MM2	H05V-K SW	-X01	C11 -S1	-00 111				
V01	0 1.0MM2	H05V-K SW	-X01	C12 -S1	-00 112				
V01	0 1.0MM2	H05V-K SW	-X01	C13 -S63	14				
V01	0 1.0MM2	H05V-K SW	-X01	C14 -S63	11				
V01	0 1.0MM2	H05V-K SW	-X01	D11 -S1	-001 43				
V01	0 1.0MM2	H05V-K SW	-X01	D12 -S1	-001 44				

Copyright as per DIN 34 to be observed!

00978102

FLD 21

HJ0115ND
L021+53
ADAM

22.12.2008

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	GROSS CONNECT. LIST		50.3023.01.A3.741.233		V	±L021
02	Fact.-Rev.	09.11.2005	AD	Drawn/Bräunert		50.3023.01	SWITCHING TRUCK					+53
01	Approval	20.08.2005	AD	Check/Adam		SUBSTATION T80	PANEL					/ 832
NO.	Alteration	Date	Name/Sid.	Orig.	iss.for	iss.by:	AREVA		D009781.02.621-3.AHA			59Sh.

Copyright as per DIN 34 to be observed!

FLD 21
D0978102

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	GROSS CONNECT. LIST	50.3023.01.A3.741.233	V	±L021	8
02	Fact.-Rev.	09.11.2005	AD	Drawn/Brüner		50.3023.01		SWITCHING TRUCK		+	S3	7 032
01	Approval	20.08.2005	AD	Check/Adam		SUBSTATION T80		PANEL				Sheet 58
NO.	Alteration	Date	Name/Sid.	Iss.for	Iss.by:	Substation		021	Star Point	D009781.02.621-3.AHA		59Sh.

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

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

A			B			C			D			+
1	-00 /001.2	S22	11	-00 /002.5	S1	44	-00 /001.5	S1	243	-001 /001.3	S1	14
2	-00 /001.2	S23	12	-00 /004.2	S1	51	-00 /001.5	F12	C2	-001 /002.6	S1	21
3	-00 /001.6	S1	213	-00 /004.2	S1	52	-00 /001.5	S1		-001 /002.6	S1	22
4	-00 /001.6	F11	C2	-00 /004.2	S1	64	-00 /001.5	S1		-001 /002.6	S1	24
5	-00 /001.7	S6	11	-00 /001.3	S1	71	-001 /001.2	S1	31			
6	-00 /001.7	S43	12	-00 /001.3	S1	72	-S61 /001.2		11			
7	-00 /002.8	S24	11	-00 /001.2	S1	83				-001 /004.4	S1	33
8	-00 /002.8	S24	12	-00 /001.2	S1	84				-001 /004.4	S1	34
9	-00 /002.8	S24	14	-00 /001.2	S1	91	-00 /001.3	S1	103			
10	-00 /001.3	S41	11	-00 /001.2	S1	92	-00 /001.3	S1	104			
11	-00 /001.3	S1	230	-001 /001.4	S1	41	-00 /001.3	S1	111	-001 /001.5	S1	43
12	-00 /001.2	S1	11	-S62 /001.4		11	-00 /001.3	S1	112	-001 /001.5	S1	44
13	-00 /001.2	S1	12	-00 /004.3	S42	11	-S63 /001.5		14	-Y1 /001.4		E1
14	-00 /001.2	S1	24	-00 /004.3	S42	14	-S63 /001.5		11	-Y1 /001.4		E2
15	-00 /002.4	S1	31	-00 /004.3	S25	11	-001 /001.3	S1	11			
16	-00 /002.4	S1	32	-00 /004.3	S25	14	-001 /001.3	S1	12			
+												+

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

FELD 21
H0115MD
H021+S3
ADAM

03	AS BUILT	05.12.2005	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.233	V	-L021	7	S30
02	Fact.-Rev.	09.11.2005	AD	Drawn/Brüner	50.3023.01		CIRCUIT-BREAKER			+S3		
01	Approval	20.08.2005	AD	Check/Adam	SUBSTATION T80		PANEL					Sheet 159
NO.	Alteration	Date	Name/Sid.	Iss. for	Iss. by:	Orig.	021	Star Point	D009781.02.621-3.AHA			59Sh.