

AREVA Sochsenwerk GmbH

Geschäftsbereich Energieverteilung

Fachbereich Mittelspannungsschaltanlagen

Königsbrücker Strasse 124 01099 Dresden

Tel.: 0351/820-3394

Fax: 0351/820-2602

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

MEASUREMENT

CIRCUIT DIAGRAM

A = L15

/ A01

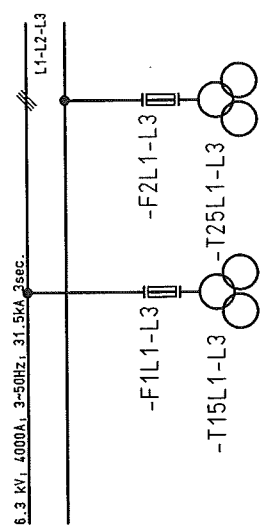
D009781.02. 615-3. AHA

50.3023.01.A3.741.228
COVER SHEET
PANEL
15

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

05.01.2007
H10115ND
=L15
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



INSTRU. AND CONTROL					
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL		REMARKS
CONTROL					
STATUS SIGNAL					
MEASUREMENT	U (L1-L2, L2-L3, L1-L3)				
PROTECTION					
METERING					

[illegible]

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYP	RATIO	VDE	REMARKS
-T15L1 -T15L2 -T15L3	AEG AEG AEG	EYEB EYEB EYEB	$\frac{6.3}{V_3} / \frac{0.1}{V_3} / \frac{0.1}{3} \text{ kV}$	W1: CL 0.2 30VA W2: 3P 100VA	
-F1L1 -F1L2 -F1L3	AEG AEG AEG	2A 2A 2A			HV FUSE
-T25L1 -T25L2 -T25L3	AEG AEG AEG	EYEB EYEB EYEB	$\frac{6.3}{V_3} / \frac{0.1}{V_3} / \frac{0.1}{3} \text{ kV}$	W1: CL 0.2 30VA W2: 3P 100VA	
-F2L1 -F2L2 -F2L3	AEG AEG AEG	2A 2A 2A			HV FUSE

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05.01.2007

03 AS BUILT 05.12.2005 AD Date 05.06.2005
02 Fact.-Rev. 09.11.2005 AD Drawn ADAM
01 Approval 20.09.2005 AD Check GRÖHMANN
NO. Alteration Date Name/Sid.

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Inhaltssverzeichnis
PANEL
15



US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

Issued for
Orig.

50.3023.01.A3.741.228
Type: 04
MEASUREMENT
D009781.02.615-3.AHA
54Sh.

7801
Sheet3
54Sh.

Copyright as per DIN 34 to be observed

D0978102

05.01.2007

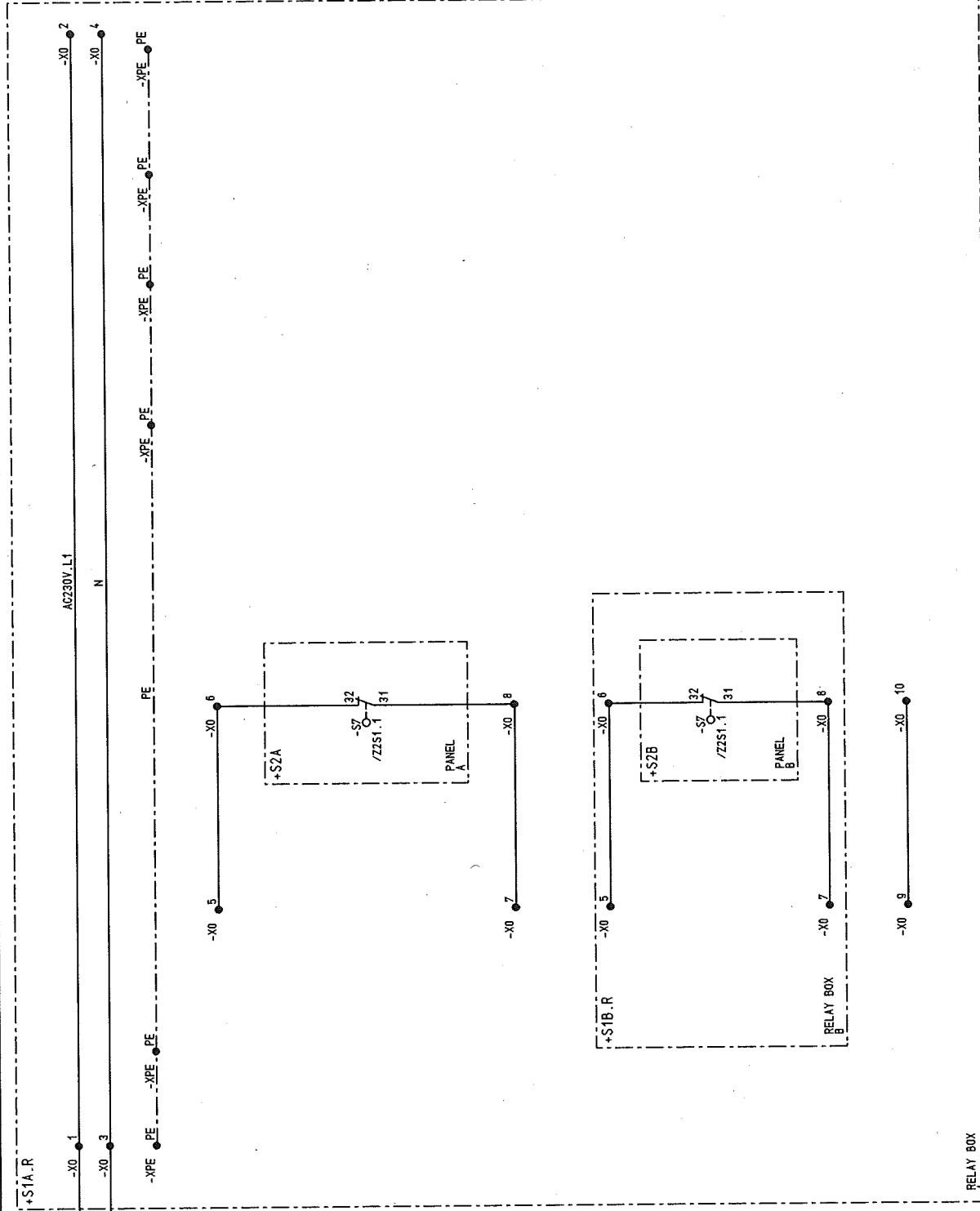
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HJ0115ND
D01
ADAN

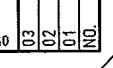
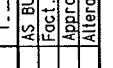
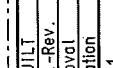
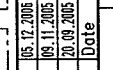
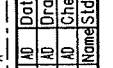
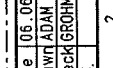
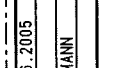
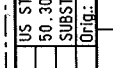
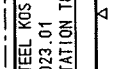
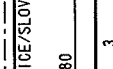
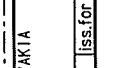
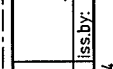
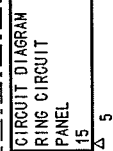
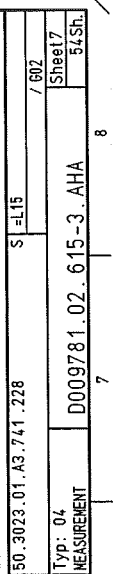
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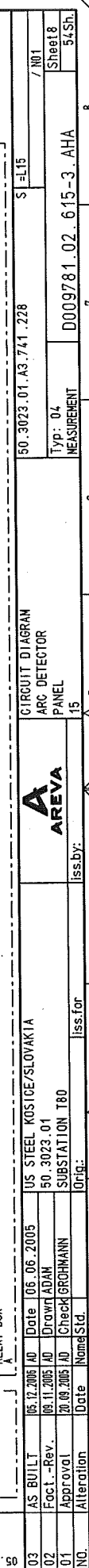


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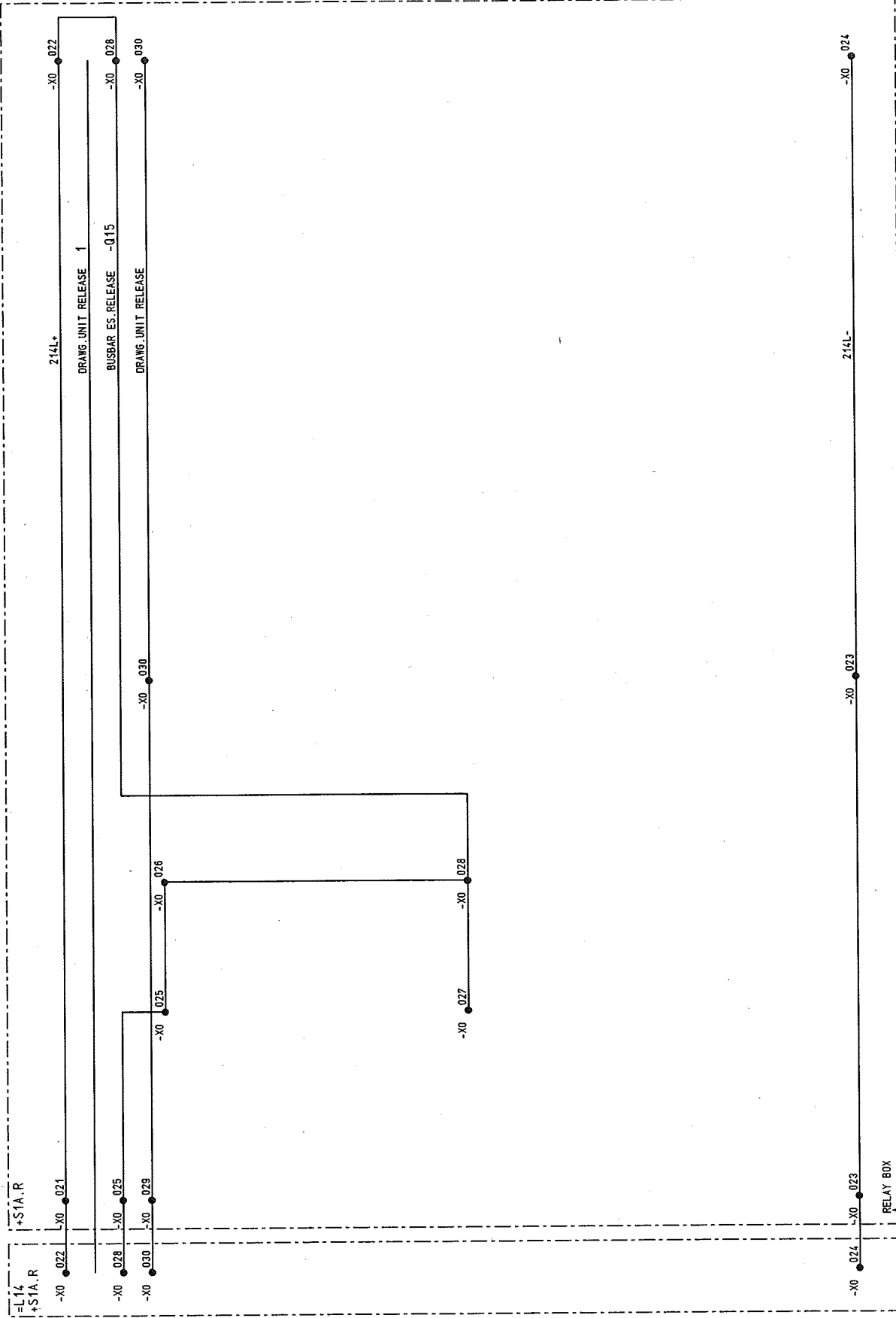




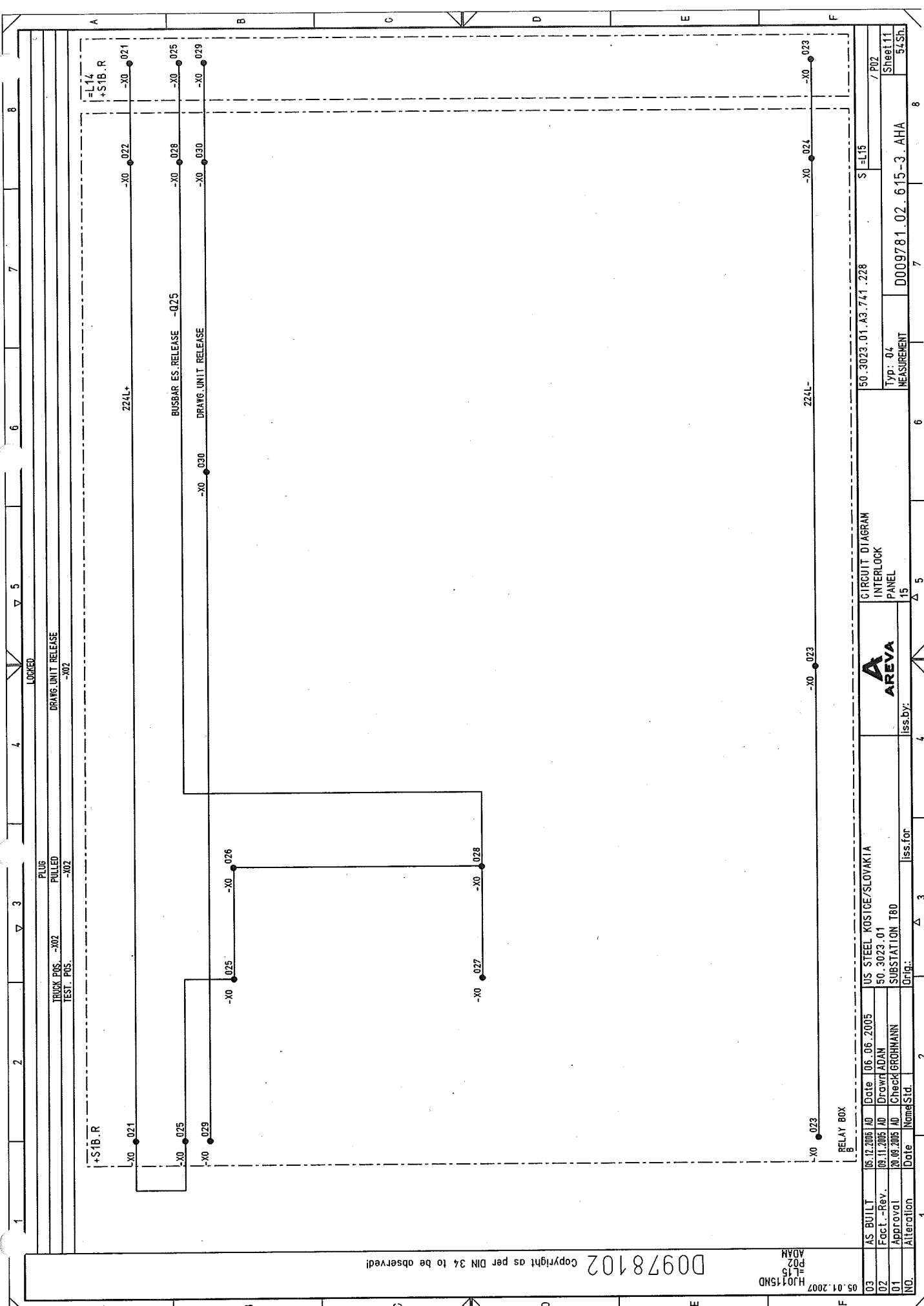
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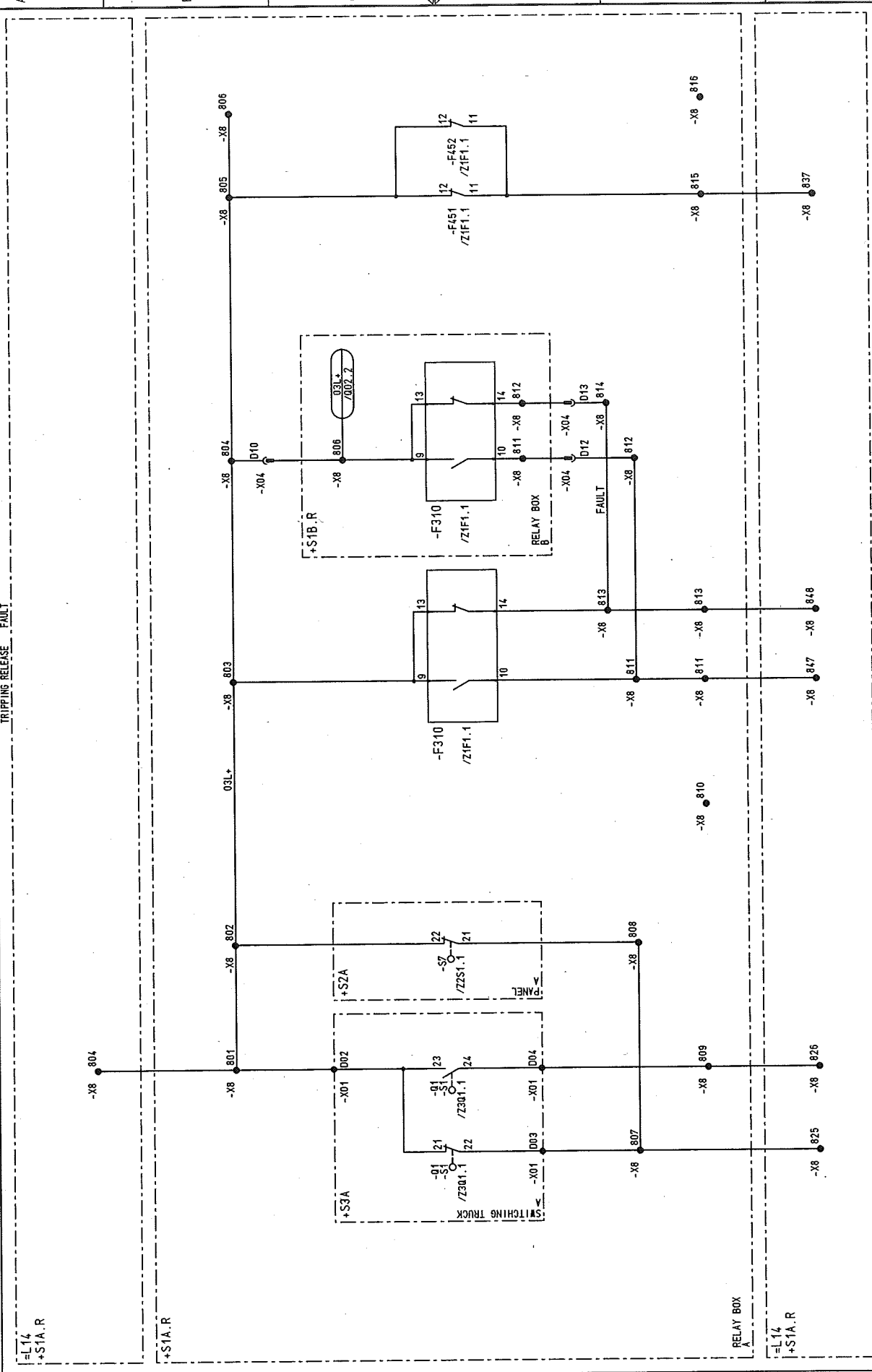
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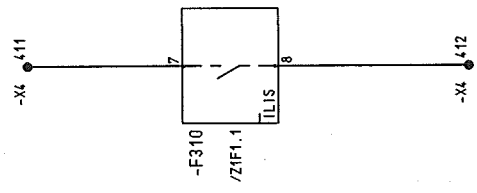
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TRUCK POS. PULSED							
TEST POS. SERVICE POSITION							
ARC DETECTOR ARC DETECTOR							
TRIPPING RELEASE FAULT							
N.C.B. TRIPPED							
VF SSI							

D0978102 Copyright as per DIN 34 to be observed!

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R01
ADAM

RELAY BOX

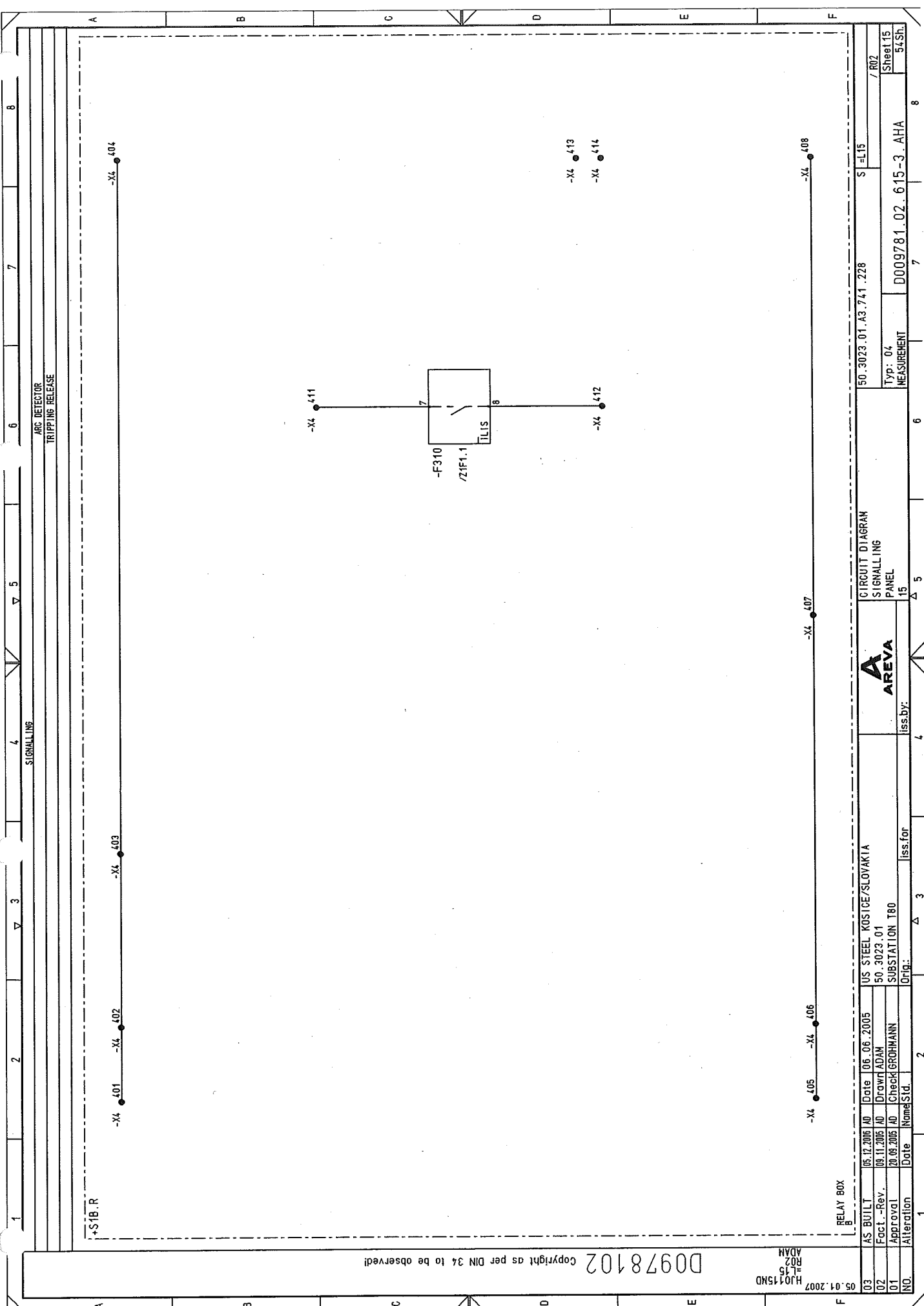
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ARC DETECTOR
TRIPPING RELEASE

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NO.	Alteration	Date	Name	Std.		Iss. for	Iss. by:	MEASUREMENT	D009781.02.615-3.AHA	





Copyright as per DIN 34 to be observed!

05.01.2007
HJ0115MD
L15
RO2
ADAM

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01	Approval	20.08.2005	AD	Check	BROHMANN					
NO.	Alteration	Date	Name	Std.	Iss. by:	Iss. for	Orig.:	Typ: 04	MEASUREMENT	Sheet 15
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CIRCUIT DIAGRAM
SIGNALLING
PANEL
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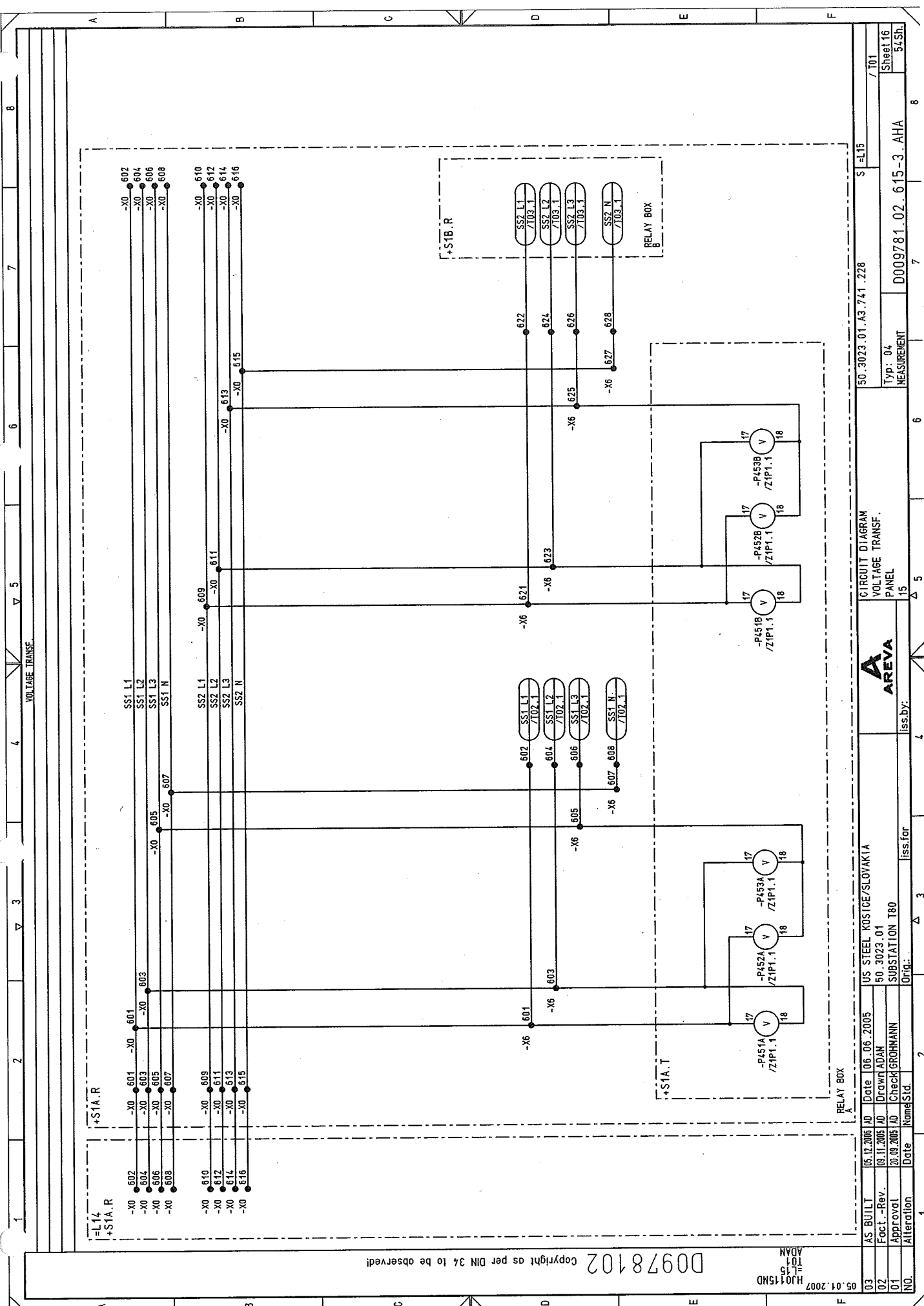


RELAY BOX

ARC DETECTOR
TRIPPING RELEASE

SIGNALLING

4S1B.R



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NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Orig.:	Δ 3	Δ 5

CIRCUIT DIAGRAM
VOLTAGE TRANSF.
PANEL

50.3023.01.A3.741.228
S=L15
/ 101
Sheet 16
54Sh.

Typ: 04
MEASUREMENT

D009781.02.615-3.AHA

50.3023.01.A3.741.228

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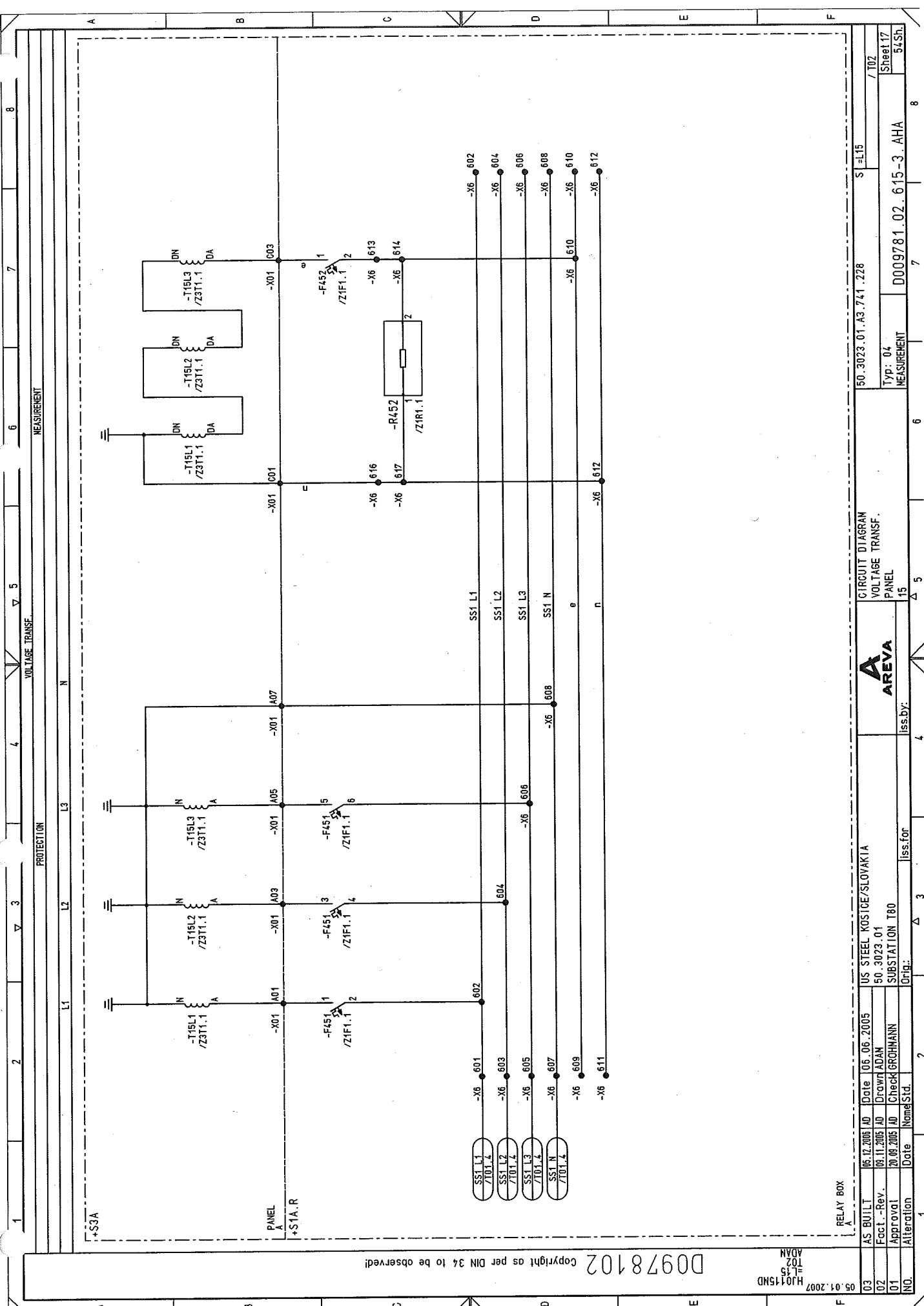
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Copyright as per DIN 34 to be observed!

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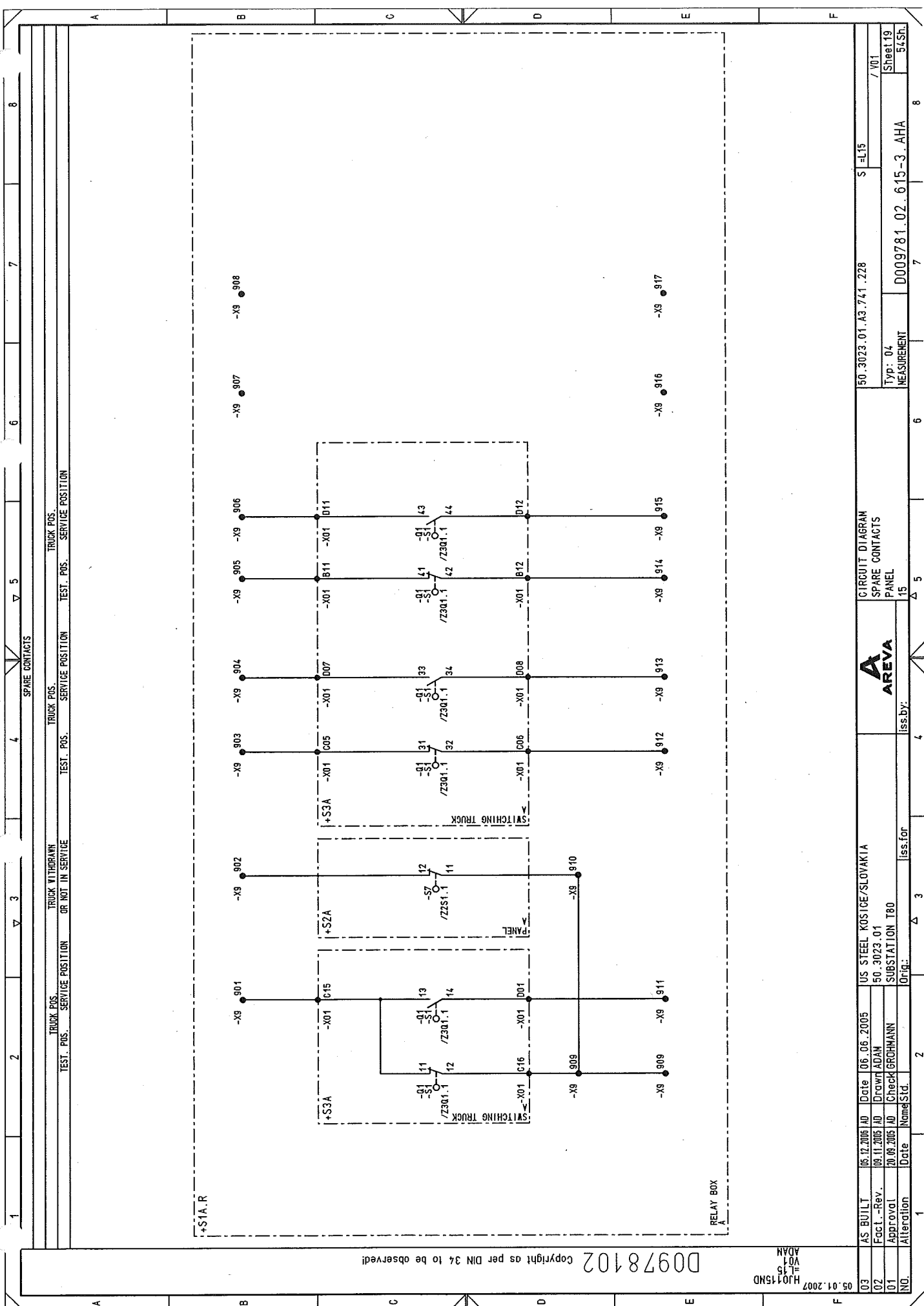


D0978102 Copyright as per DIN 34 to be observed!

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RELAY BOX

03		AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM		50.3023.01.A3.741.228	S	L15
02		Fact - Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01	VOLTAGE TRANSF.				/ T02
01		Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 17
00		Alteration			Orig.			MEASUREMENT		D009781.02.615-3.AHA		54Sh.



1	2	3	4	5	6	7	8
SPARE CONTACTS							
TRUCK POS. SERVICE POSITION OR NOT IN SERVICE							
TRUCK POS. SERVICE POSITION TEST POS. SERVICE POSITION							

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01	50.3023.01.A3.741.228	S-L15	/V01
02	Factl. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
01	Approval	20.06.2005	AD	Check	BROHMANN	SUBSTATION T80				
NO.	Alteration	Date	Name	Stid.	Iss. for	Iss. by:	Orig.	0009781.02.615-3.AHA	MEASUREMENT	Sheet 19
										54Sh.

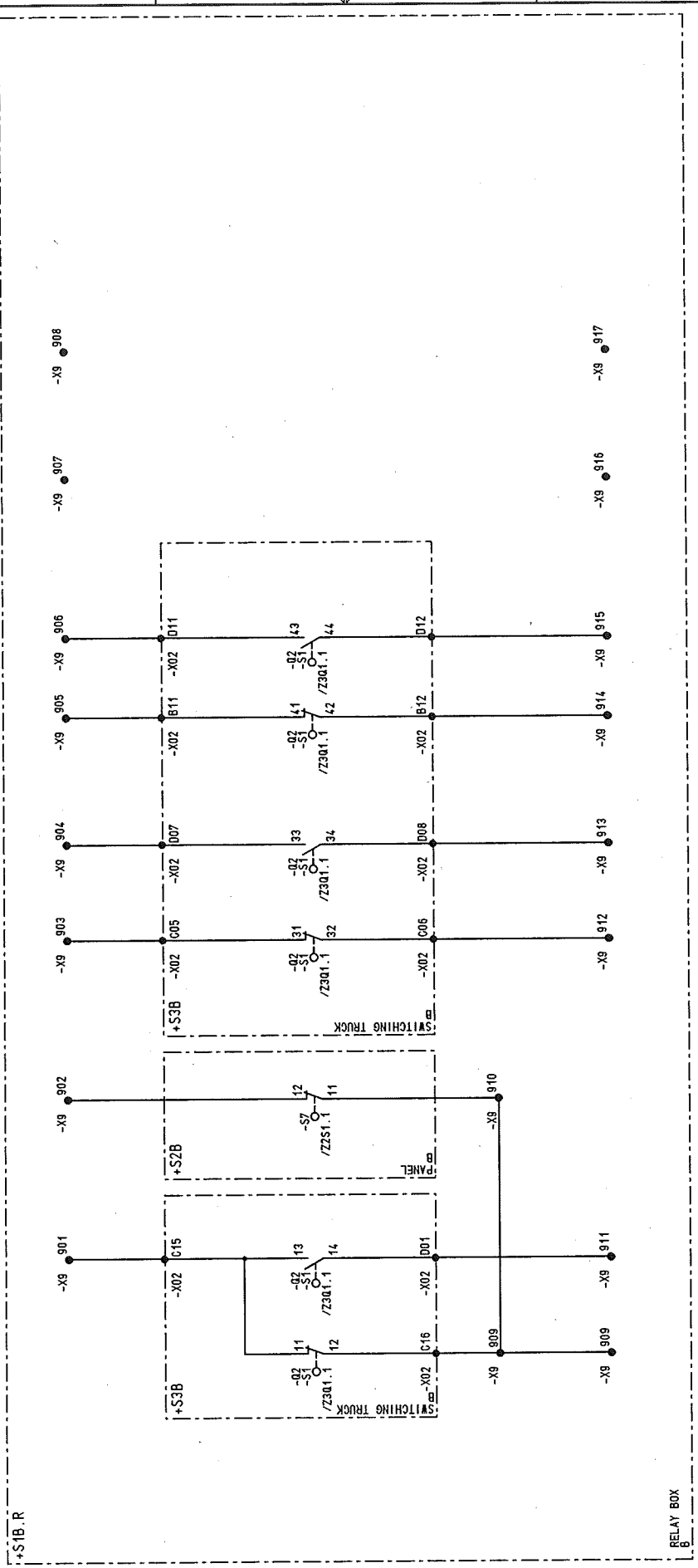
00978102 Copyright as per DIN 34 to be observed!

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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01	50.3023.01	50.3023.01.A3.741.228	S1=L15	8
02	Fact.-Rev.	08.11.2005	AD	Drawn	ADAH						7
01	Approval	20.09.2005	AD	Check	GROHMANN						6
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	Panel	15	Typ: 04 MEASUREMENT	D009781.02.615-3.AHA	5
											4
											3
											2
											1



CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL



1	2	3	4	5	6	7	8
TRUCK POS. SERVICE POSITION				TRUCK POS. SERVICE POSITION			
TRUCK WITHDRAWN OR NOT IN SERVICE				TRUCK POS. SERVICE POSITION			
TEST. POS. SERVICE POSITION				TEST. POS. SERVICE POSITION			

1	2	3	4	5	6	7	8	
STUCK-TITEL	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA	SETTING	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.			REMARK
2	M.C.B. MANUF.: BE POWER CONTROLS 506516 AUXILIARY SWITCH HH	TYPE EP61 G6						
1	RATED CURRENT : 6A TECHNICAL COMPONENTS AUXILIARY SWITCH	CHARACTERISTIC : C TYPE CB SH/HH-R	672570					
	APPLICATION	SETTING	IDENTIFIER					
	VOLT. TRANSF	e-n WINDING	*STA.R					
	VOLT. TRANSF	e-n WINDING	*STB.R					
2	M.C.B. HERST.: BE POWER CONTROLS BEST.NR.: 506594 AUXILIARY SWITCH HH	TYPE: EP63 C3						
1	RATED CURRENT : 3A TECHNICAL COMPONENTS AUXILIARY SWITCH	CHARACTERISTIC : C TYPE CB SH/HH-R	672570					
	APPLICATION	SETTING	IDENTIFIER					
	VOLT. TRANSF	e-n WINDING	*STA.R					
	VOLT. TRANSF	e-n WINDING	*STB.R					
2	ARC DETECTOR MANUF.: AREVA PO NO.: 066622 DC 24V	TYPE ILIS						
	TECHNICAL COMPONENTS	TYPE	ORDER NO					
	APPLICATION	SETTING	IDENTIFIER					
	ARC DETECTOR	*STA.R	-F310					
	ARC DETECTOR	*STB.R	-F310					

COMPONENT	IDENTIFIER	TERMINAL
SENSOR 1	/NO1.3	1
SENSOR 2	/NO1.4	2
SENSOR 3	/NO1.5	3
SENSOR 4	/NO1.6	4
µC	/NO1.5	5
DC	/NO1.3	6
OFF	/NO1.4	7
FAULT	/NO1.5	8
	/NO1.6	9
	/NO1.5	10
	/NO1.6	11
	/NO1.2	12
	/NO1.3	13
	/NO1.4	14
	/NO1.5	15

03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01
02	Fact.-Rev.	09.11.2005	AD	Drawn:ADAN			
01	Approval	20.09.2005	AD	Check:GROHMANN			
NO.	Alteration	Date	Name:Std.	Iss.for	Iss.by: 15	PANEL	0009781.02.615-3.AHA
					MEASUREMENT	Typ: 04	54Sh.
							7 ZIF1
					50.3023.01.A3.741.228	S ±L15	

00978102 Copyright as per DIN 34 to be observed!

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1	2	3	4	5	6	7	8
STUCK- TITTY		DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.		APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	
6		MEAS. UNIT		MANUF.: WEIGEL		TYPE E072K	
VOLT METER		MOVING-IRON		PO NO.:			
MEASUREMENT VARIABLE: V		TYP		ORDER NO			
TECHNICAL COMPONENTS							
APPLICATION		SETTINGS		MOUNTING		BTN IDENTIFIER	
VOLTAGE		SS1 L1-L2		+SIA.T		-P451A	
VOLTAGE		SS1 L1-L3		+SIA.T		-P452A	
VOLTAGE		SS1 L2-L3		+SIA.T		-P453A	
VOLTAGE		SS2 L1-L2		+SIA.T		-P451B	
VOLTAGE		SS2 L1-L3		+SIA.T		-P452B	
VOLTAGE		SS2 L2-L3		+SIA.T		-P453B	
						/T01.2	
						/T01.3	
						/T01.3	
						/T01.5	
						/T01.5	
						/T01.6	

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V

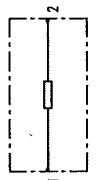
18

03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	LIST OF EQUIPMENT		50.3023.01.A3.741.228	S	L15	/ZIP1
02	Fact. -Rev.	03.11.2005 AD	Drawn	ADAM	50.3023.01						Sheet 22
01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T80						54Sh.
NO.	Alteration	Date	Name/Std.	2	Orig.	Iss. for	Iss. by:	15	6	7	8
					D009781.02.615-3.AHA		MEASUREMENT		Typ: 04		

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STUCK-TITEL	DESCRIPTION, DESIGN, TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM	REFERENCE TO INDIVIDUAL TREATMENT	(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS	REMARK
2	RESISTOR	MANUF.: Heine Resistors GmbH PO NO.: 742011720027 DAMPING	TYPE EFM 60x300				
	RESISTANCE	: 22 Ohm +/- 10%	POWER				
	TECHNICAL COMPONENTS	TYP	: 430W				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	DAMPING RESISTANCE		+S1A.R	-R452	/102.6	/102.7	
	DAMPING RESISTANCE		+S1B.R	-R452	/103.6	/103.7	



03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	LIST OF EQUIPMENT	50.3023.01.A3.741.228	S=L15	/ ZIRI
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	50.3023.01				Sheet 23
01	Approval	20.09.2005 AD	Checked	GROHMANN	SUBSTATION T60				54Sh.
NO.	Alteration	Date	Name	Std.	Orig.	Iss. by:	Iss. for	MEASUREMENT	D009781.02.615-3.AHA
1				2		4	3	6	7
									8



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003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.228 V=L15 *STA.R	/ N01
002	Fact. - Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01				
001	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80				
000	Approval	Date	Name	Signature	Use for	Use for	Use for	Type: 04 MEASUREMENT 15	D009781.02.615-3.AHA 54Sh.	Sheet 28

[illegible]

[illegible]

1 NO CABLE												2 WIRES USED SHEET/STATE												3 CABLE-TYPE SECTION												4 CORES -ROUTE												5 CIRCUIT DIAGRAM												6 CABLE MATERIAL												7 Ø COLOR												8 TERM. TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	TERMINAL DIAGRAM	50.3023.01.A3.741.228	V=L15	8
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN				*S1A.R	/K60
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80			Typ: 04	Sheet 32
NO	Alteration	Date	Nome	Std.	Orig.	Iss. for	Iss. by:	MEASUREMENT	D009781.02.615-3.AHA	54StL

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D0978102 Copyright as per DIN 34 to be observed

1		2		3		4		5		6		7		8	
NO CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		TERM. TYPE	
NO		CABLE		CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		TERM. TYPE	
-XPE		INSTALLATION													
RÜCK-REF.		NO		CORES/ LINE		DESTINAT. DESIG.		EXTERNAL		POT		NO		CORES/ LINE	
/001.2		1 2 3 4 5 6 7 8 9 10 11 12										PE			
/001.2												PE			
/001.5												PE			
/001.6												PE			
/001.7												PE			
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03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
02	Factl. -Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	BROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Iss.	for

TERMINAL DIAGRAM		50.3023.01.A3.741.228	VI-L15
PANEL		MEASUREMENT	+SIA.R
15		D009781.02	615-3.AHA
		Typ: 04	Sheet 35
		MEASUREMENT	54Sh.

D00978102 Copyright as per DIN 34 to be observed!

05.01.2007

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM OR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
602	AUTF SS1 1. 5MM2 04L+	H07V-K SW -X0	065 -F451	21 -F452	21				
602	1. 5MM2 03L+	H07V-K SW -X4	409 -F451	22 -F452	22				
001	1. 0MM2 03L+	H05V-K SW -X8	803 -F310	9 -F310	13				
001	1. 5MM2 03L+	H07V-K SW -X8	805 -F451	12 -F452	12				
001	1. 5MM2 L1	H07V-K SW -X8	815 -F451	11 -F452	11				
T02	2. 5MM2 L2	H07V-K SW	-X01	A01 -F451	1				
T02	2. 5MM2 L3	H07V-K SW	-X01	A03 -F451	3				
T02	2. 5MM2 e	H07V-K SW	-X01	A05 -F451	5				
T02	2. 5MM2	H07V-K SW	-X01	C03 -F452	1				

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CROSS CONNECT. LIST	50.3023.01.A3.741.228	VI=L15
02	Fact -Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01	RELAY BOX	+SIA.R	/ 010
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 04	Sheet 36
00	Alteration			Date		Orig.:	15	MEASUREMENT	54Sh.
								D009781.02.615-3.AHA	

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

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

A				B				C											
+																			+
1	-F451 /T02.2	H07V-K	2.5MM2	SW	1	B01		-X6 /T02.6	H07V-K	2.5MM2	SW	616		-X9 /V01.2	H05V-K	1.0MM2	SW	911	
2						B02								-X8 /V01.2	H05V-K	1.0MM2	SW	801	
3	-F451 /T02.3	H07V-K	2.5MM2	SW	3	B03		-F452 /T02.7	H07V-K	2.5MM2	SW	1		-X8 /V01.2	H05V-K	1.0MM2	SW	807	
4						B04								-X8 /V01.2	H05V-K	1.0MM2	SW	809	
5	-F451 /T02.4	H07V-K	2.5MM2	SW	5	B05		-X9 /V01.4	H05V-K	1.0MM2	SW	903							
6						B06		-X9 /V01.4	H05V-K	1.0MM2	SW	912							
7	-X6 /T02.4	H07V-K	2.5MM2	SW	608	B07								-X9 /V01.4	H05V-K	1.0MM2	SW	904	
8						B08								-X9 /V01.4	H05V-K	1.0MM2	SW	913	
9						B09													
10						B10													
11						B11		-X9 /V01.5	H05V-K	1.0MM2	SW	905		-X9 /V01.5	H05V-K	1.0MM2	SW	906	
12						B12		-X9 /V01.5	H05V-K	1.0MM2	SW	914		-X9 /V01.5	H05V-K	1.0MM2	SW	915	
13						B13													
14						B14													
15						B15		-X9 /V01.2	H05V-K	1.0MM2	SW	901							
16						B16		-X9 /V01.2	H05V-K	1.0MM2	SW	909							
+																			+


03	AS BUILT	08.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.228	V=L15
02	Fact. -Rev.	08.11.2005	AD	Drawn	ADAN	50.3023.01	CIRCUIT-BREAKER	+S1A.R	/S01
01	Approval	20.08.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL	Typ: 04	Sheet 37
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	MEASUREMENT	D009781.02.615-3.AHA	54Sh.

Subject to technical modifications!
 Copyright as per DIN 34 to be observed!
 D0978102

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1	2	3	4	5	6	7	8
NO	CABLE	WIRES USED	SHEET/STATE	CABLE-TYPE SECTION	CORES	-ROUTE	CIRCUIT DIAGRAM
-X0							
CABLE MATERIAL Ø COLOR TERM. TYPE STANDARD: H07V-K 1.5MM2 SW STANDARD: UKSN POS.: 2 H07V-K 2.5MM2 SW							
RÜCK-REF.	DESTINAT. DESIG.	EXTERNAL	POT	NO	DESTINAT. DESIG.	INTERNAL	CORES/LINE
/001.3				5			
/001.4				6			
/001.3				7			
/001.4				8			
/P02.1				021			
/P02.7				022			
/P02.4				023			
/P02.7				024			
/P02.2				025			
/P02.3				026			
/P02.2				027			
/P02.7				028			
/P02.1				029			
/P02.7				030			
RÜCK-REF.	DESTINAT. DESIG.	EXTERNAL	POT	NO	DESTINAT. DESIG.	INTERNAL	CORES/LINE
/001.3				5			
/001.4				6			
/001.3				7			
/001.4				8			
/P02.1				021			
/P02.7				022			
/P02.4				023			
/P02.7				024			
/P02.2				025			
/P02.3				026			
/P02.2				027			
/P02.7				028			
/P02.1				029			
/P02.7				030			
Copyright as per DIN 34 to be observed!							
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05.01.2007							
03 AS BUILT 08.12.2005 AD Date 06.06.2005 US STEEL KOSTICE/SLOVAKIA							
02 Fact.-Rev. 08.11.2005 AD Drawn ADAM 50.3023.01							
01 Approval 20.09.2005 AD Check GROHMANN SUBSTATION T80							
NO Alteration Date Name Sid Orig: Iss: for Iss: by: PANEL							
Terminal Diagram							
50.3023.01.A3.741.228 VI=L15							
+S1B.R / K01							
Typ: 04 D009781.02.615-3.AHA							
MEASUREMENT							
Sheet 41							
54Sh.							

003	AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.228	V ±L15 +STB.R	/ K10
002	Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01					
001	Approval	20.03.2005	AD	Check	GROHMANN	SUBSTATION T80					
NO.	Alteration	Date	Name	Sig.	Orig.	Iss. for	Iss. by:	PANEL	Type: 04 MEASUREMENT	D009781.02.615-3.AHA	54.5h.

AS BUILT	05.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01_A3_741_228	V	=LJ5	+SIB.R	/ K40
Fact.-Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01							
Approval	20.09.2005	AD	Checked	GROHMANN								
Attention	Date	Name/Sid	SUBSTATION T80		01-in.	iss for	PANEL	Type: 04	D009784 02 615-3 AHA			
						iss by:	15	MEASUREMENT	54 Sh.			

NO. 03										AS BUILT										05.12.2005										AD										Date										06.06.2005										US STEEL KOSTICE/SLOVAKIA										50.3023.01										TERMINAL DIAGRAM										V=L15										/K60																			
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										Sid.										Orig.										Iss.for										15										PANEL										D009781.02.615-3.AHA										545h.																			

NO. 03										AS BUILT										05.12.2005										AD										Date										06.06.2005										US STEEL KOSTICE/SLOVAKIA										50.3023.01										TERMINAL DIAGRAM										V=L15										/K60																			
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01										Approval										20.09.2005										AD										Check										GROHMANN										SUBSTATION T80																																																											
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NO. 03										AS BUILT										05.12.2005										AD										Date										06.06.2005										US STEEL KOSTICE/SLOVAKIA										50.3023.01										TERMINAL DIAGRAM										V=L15										/K60																			
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01										Approval										20.09.2005										AD										Check										GROHMANN										SUBSTATION T80																																																											
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NO. 03										AS BUILT										05.12.2005										AD										Date										06.06.2005										US STEEL KOSTICE/SLOVAKIA										50.3023.01										TERMINAL DIAGRAM										V=L15										/K60																			
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D0978102 Copyright as per DIN 34 to be observed!

05.01.2007

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

003	AS BUILT	05.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50.3023.01.A3.741.228	V=15 *SIB.R	Sheet:6 54 Sh.
002	Fact.-Rev.	09.11.2005	AD	Drawn:ADAM	50.3023.01						
001	Approval	20.09.2005	AD	Check:GROHMANN	SUBSTATION T80						
000	Allocation	Date	Name:Sid	Iss for	Iss by:	Panel	Type: 04	MEASUREMENT	0009781 02.615-3.AHA		

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

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

+		A				B				C				+	
1	A01	-F451 /T03.2 H07V-K 2.5MM2 SW	1	B01		-X6 /T03.6 H07V-K 2.5MM2 SW	616	100	-X9 /V02.2 H05V-K 1.0MM2 SW	911	1				
2	A02			B02				200	-X8 /V02.2 H05V-K 1.0MM2 SW	801	2				
3	A03	-F451 /T03.3 H07V-K 2.5MM2 SW	3	B03		-F452 /T03.7 H07V-K 2.5MM2 SW	1	300	-X8 /V02.2 H05V-K 1.0MM2 SW	807	3				
4	A04			B04				400	-X8 /V02.2 H05V-K 1.0MM2 SW	809	4				
5	A05	-F451 /T03.4 H07V-K 2.5MM2 SW	5	B05		-X9 /V02.4 H05V-K 1.0MM2 SW	903	500			5				
6	A06			B06		-X9 /V02.4 H05V-K 1.0MM2 SW	912	600			6				
7	A07	-X6 /T03.4 H07V-K 2.5MM2 SW	608	B07				700	-X9 /V02.4 H05V-K 1.0MM2 SW	904	7				
8	A08			B08				800	-X9 /V02.4 H05V-K 1.0MM2 SW	913	8				
9	A09			B09				900			9				
10	A10			B10				1000			10				
11	A11			B11	-X9 /V02.5 H05V-K 1.0MM2 SW	905		1100	-X9 /V02.5 H05V-K 1.0MM2 SW	906	11				
12	A12			B12	-X9 /V02.5 H05V-K 1.0MM2 SW	914		1200	-X9 /V02.5 H05V-K 1.0MM2 SW	915	12				
13	A13			B13				1300			13				
14	A14			B14				1400			14				
15	A15			B15		-X9 /V02.2 H05V-K 1.0MM2 SW	901	1500			15				
16	A16			B16		-X9 /V02.2 H05V-K 1.0MM2 SW	909	1600			16				
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Subject to technical modifications!
 Copyright as per DIN 34 to be observed!

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03	AS BUILT	05.12.2005 AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.228	V=L15	8
02	Fact.-Rev.	09.11.2005 AD	Drawn	ADAM	CIRCUIT-BREAKER			+S1B.R	/S01
01	Approval	20.08.2005 AD	Check	GROHMANN	PANEL				Sheet 48
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:	15	D009781.02.615-3.AHA	54Sh.

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D04	(Aderverbindung) N		-X201	C01 -E101	1				
D04	(Aderverbindung)		-X201	C02 -E101	2				
D04	(Aderverbindung)		-X201	C03 -B101	3				
D04	(Aderverbindung) N		-X201	C04 -B101	4				
D04	(Aderverbindung)		-X201	C05 -B101	5				
D04	(Aderverbindung)		-X201	C06 -E101	PE				
D04	(Aderverbindung) N		-X201	C07 -E102	1				
D04	(Aderverbindung)		-X201	C08 -E102	2				
D04	(Aderverbindung)		-X201	C09 -B102	3				
D04	(Aderverbindung) N		-X201	C10 -B102	4				
D04	(Aderverbindung)		-X201	C11 -B102	5				
D04	(Aderverbindung)		-X201	C12 -E102	PE				
D04	(Aderverbindung) N		-X201	C13 -E103	1				
D04	(Aderverbindung)		-X201	C14 -E103	2				
D04	(Aderverbindung)		-X201	C15 -B103	3				
D04	(Aderverbindung) N		-X201	C16 -B103	4				
D04	(Aderverbindung)		-X201	D01 -B103	5				
D04	(Aderverbindung)		-X201	D02 -E103	PE				
T01	N 2.5MM2	H07V-K SW	-T5L1	N -T5L2	N -T5L3	N PE	SCHRAUBE		
T01	N 2.5MM2	H07V-K SW	-T5L1	DN PE	SCHRAUBE				
				CROSS CONNECT. LIST					
				PANEL					
				PANEL					
				01					
				50.3023.01.A3.741.223					
				V=L01					
				+S2B					
				Typ: 01					
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				D009781.02.601-3.AHA					
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				Sheet 127					
				135Sh.					

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D0978102 Copyright as per DIN 34 to be observed!

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L=15+S2B
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03	AS BUILT	05.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	06.11.2005	AD	Drawn	ADAM	50.3023.01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80
NO.	Alteration	Date	Name	Std.	Orig.	

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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		
T01	2 2.5MM2	H07V-K SW		-T5L2	DN -T5L1	DA					
T01	2 2.5MM2	H07V-K SW		-T5L3	DN -T5L2	DA					

+S2B	-X201
CABLE MATERIAL	H05V-K 1.0mm2 SW

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA		PLUG DIAGRAM		50_3023_01.A3.741_223	V=L01
02	Fact - Rev.	09.11.2005	AD	Drawn	ADAM	50_3023_01		FAN			/S101
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	Type: 01		Sheet 129
00	Alteration	Date	Name	Sid.		Orig.:		iss. by:	INCOMING		135SH.
								D009781_02_601-3_AHA			

CROSS CONNECTION									
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
001	03L+ 0 1.0MW2	H05V-K SW	-X01	D02 -S1	-Q1 21 -S1	-Q1 23			
001	0 1.0MW2	H05V-K SW	-X01	D03 -S1	-Q1 22				
001	0 1.0MW2	H05V-K SW	-X01	D04 -S1	-Q1 24				
T02	2 2.5MW2	H07V-K SW	-T15L2	DN -T15L1	DA				
T02	2 2.5MW2	H07V-K SW	-T15L3	DN -T15L2	DA				
T02	2 2.5MW2	H07V-K SW	-X01	A01 -T15L1	A				
T02	2 2.5MW2	H07V-K SW	-X01	A03 -T15L2	A				
T02	2 2.5MW2	H07V-K SW	-X01	A05 -T15L3	A				
T02	2 2.5MW2	H07V-K SW	-X01	A07 -T15L1	N -T15L2	N -T15L3	N PE	SCHRAUBE	
T02	2 2.5MW2	H07V-K SW	-X01	C01 -T15L1	DN PE	SCHRAUBE			
T02	2 2.5MW2	H07V-K SW	-X01	C03 -T15L3	DA				
V01	0 1.0MW2	H05V-K SW	-X01	B11 -S1	-Q1 41				
V01	0 1.0MW2	H05V-K SW	-X01	B12 -S1	-Q1 42				
V01	0 1.0MW2	H05V-K SW	-X01	C05 -S1	-Q1 31				
V01	0 1.0MW2	H05V-K SW	-X01	C06 -S1	-Q1 32				
V01	0 1.0MW2	H05V-K SW	-X01	C15 -S1	-Q1 11 -S1	-Q1 13			
V01	0 1.0MW2	H05V-K SW	-X01	C16 -S1	-Q1 12				
V01	0 1.0MW2	H05V-K SW	-X01	D01 -S1	-Q1 14				
V01	0 1.0MW2	H05V-K SW	-X01	D07 -S1	-Q1 33				
V01	0 1.0MW2	H05V-K SW	-X01	D08 -S1	-Q1 34				
US STEEL KOSICE/SLOVAKIA				CROSS CONNECTION LIST			50.3023.01.A3.741.228		
ADAM				AREVA			V=L15		
AS BUILT				SWITCHING TRUCK			+S3A		
Fact.-Rev.				PANEL			/ 030		
Approval				15			Sheet 49		
Alteration				Iss. by:			54SL		
Date				Iss. for			D009781.02.615-3.AHA		
Date				Orig:			MEASUREMENT		
Date				1			7		
Date				2			8		

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L15+33A
ADAM

CROSS CONNECTION											
REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6		
V01	0 1.0MM2	H05V-K SW	-X01	D11 -S1	-Q1 43						
V01	0 1.0MM2	H05V-K SW	-X01	D12 -S1	-Q1 44						
						</					

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

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

A				B				C				D				+
1	-T15L1 /T02.2	H07V-K	2.5MM2 SW	A	B01			-T15L1 /T02.6	H07V-K	2.5MM2 SW	DN: 0	-01 /V01.2	-S1		16	1
2					B02							-01 /V01.2	-S1		21	2
3	-T15L2 /T02.3	H07V-K	2.5MM2 SW	A	B03			-T15L3 /T02.7	H07V-K	2.5MM2 SW	DA	-01 /V01.2	-S1		22	3
4					B04							-01 /V01.2	-S1		24	4
5	-T15L3 /T02.4	H07V-K	2.5MM2 SW	A	B05			-01 /V01.4	-S1		31					5
6					B06			-01 /V01.4	-S1		32					6
7	-T15L1 /T02.4	H07V-K	2.5MM2 SW	N: 0	B07							-01 /V01.4	-S1		33	7
8					B08							-01 /V01.4	-S1		34	8
9					B09											9
10					B10											10
11	-01 /V01.5	H05V-K	1.0MM2 SW		B11		41	-01 /V01.5	H05V-K	1.0MM2 SW		-01 /V01.5	H05V-K	1.0MM2 SW	43	11
12	-01 /V01.5	H05V-K	1.0MM2 SW		B12		42	-01 /V01.5	H05V-K	1.0MM2 SW		-01 /V01.5	H05V-K	1.0MM2 SW	44	12
13					B13											13
14					B14											14
15					B15			-01 /V01.2	-S1		11: 0					15
16					B16			-01 /V01.2	-S1		12					16
																+

03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	PLUG DIAGRAM	50.3023.01.A3.741.228	V	L15	/S01
02	Fact.-Rev.	09.11.2005	AD	Drawn	ADAN	50.3023.01	CIRCUIT-BREAKER			S3A	/S01
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80	PANEL				Sheet 151
NO.	Alteration	Date	Nome	Std.	Orig.	Iss. for	Iss. by:	MEASUREMENT			54Sh.
								D009781.02.615-3.AHA			

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05.01.2007
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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
002	03L+ 0 1.0MM2	H05V-K SW	-X02	D02 -S1	-Q2 21 -S1	-Q2 23			A
002	0 1.0MM2	H05V-K SW	-X02	D03 -S1	-Q2 22				
002	0 1.0MM2	H05V-K SW	-X02	D04 -S1	-Q2 24				
T03	2 2.5MM2	H07V-K SW	-T25L2	DN -T25L1	DA				B
T03	2 2.5MM2	H07V-K SW	-T25L3	DN -T25L2	DA				
T03	L1 2 2.5MM2	H07V-K SW	-X02	A01 -T25L1	A				
T03	L2 2 2.5MM2	H07V-K SW	-X02	A03 -T25L2	A				
T03	L3 2 2.5MM2	H07V-K SW	-X02	A05 -T25L3	A				
T03	SS2 N 2 2.5MM2	H07V-K SW	-X02	A07 -T25L1	N -T25L2	N -T25L3	N PE	SCHRAUBE	C
T03	n 2 2.5MM2	H07V-K SW	-X02	C01 -T25L1	DN PE	SCHRAUBE			
T03	e 2 2.5MM2	H07V-K SW	-X02	C03 -T25L3	DA				
V02	0 1.0MM2	H05V-K SW	-X02	B11 -S1	-Q2 41				D
V02	0 1.0MM2	H05V-K SW	-X02	B12 -S1	-Q2 42				
V02	0 1.0MM2	H05V-K SW	-X02	C05 -S1	-Q2 31				
V02	0 1.0MM2	H05V-K SW	-X02	C06 -S1	-Q2 32				
V02	0 1.0MM2	H05V-K SW	-X02	C15 -S1	-Q2 11 -S1	-Q2 13			E
V02	0 1.0MM2	H05V-K SW	-X02	C16 -S1	-Q2 12				
V02	0 1.0MM2	H05V-K SW	-X02	D01 -S1	-Q2 14				
V02	0 1.0MM2	H05V-K SW	-X02	D07 -S1	-Q2 33				
V02	0 1.0MM2	H05V-K SW	-X02	D08 -S1	-Q2 34				F
GROSS CONNECT. LIST SWITCHING TRUCK PANEL									
AREVA									
iss.by:									
iss.for									
Orig:									
Date									
NameStd.									
2									
US STEEL KOSICE/SLOVAKIA									
Date 06.06.2005									
05.12.2005 AD									
02 Fact.-Rev.									
03.11.2005 AD									
01 Approval									
20.06.2005 AD									
01 Alteration									
Date									
NameStd.									
2									
50.3023.01.A3.741.228									
V ±L15									
+53B									
/ 030									
Sheet52									
54Sh.									
D009781.02.615-3.AHA									
MEASUREMENT									
Typ: 04									
7									
8									

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

+S3B -X02 CABLE MATERIAL H05V-K 1.0mm2 SW															
A				B				C				D			
+															+
1	-T25L1 /T03.2 H07V-K 2.5MM2 SW	A	B01	-T25L1 /T03.6 H07V-K 2.5MM2 SW	DN: 0	100	-02 /V02.2	-S1	14						
2			B02			202	-02 /V02.2	-S1	21	0					
3	-T25L2 /T03.3 H07V-K 2.5MM2 SW	A	B03	-T25L3 /T03.7 H07V-K 2.5MM2 SW	DA	303	-02 /V02.2	-S1	22						
4			B04			404	-02 /V02.2	-S1	24						
5	-T25L3 /T03.4 H07V-K 2.5MM2 SW	A	B05	-02 /V02.4	31	505	-02 /V02.4	-S1							
6			B06	-02 /V02.4	32	606	-02 /V02.4	-S1							
7	-T25L1 /T03.4 H07V-K 2.5MM2 SW	N: 0	B07			707	-02 /V02.4	-S1	33						
8			B08			808	-02 /V02.4	-S1	34						
9			B09			909									
10			B10			1010									
11	-02 /V02.5 H05V-K 1.0MM2 SW	-S1	B11	-02 /V02.5 H05V-K 1.0MM2 SW	41	1111	-02 /V02.5	H05V-K 1.0MM2 SW	43						
12	-02 /V02.5 H05V-K 1.0MM2 SW	-S1	B12	-02 /V02.5 H05V-K 1.0MM2 SW	42	1212	-02 /V02.5	H05V-K 1.0MM2 SW	44						
13			B13			1313									
14			B14			1414									
15			B15	-02 /V02.2	11: 0	1515	-02 /V02.2	-S1							
16			B16	-02 /V02.2	12	1616	-02 /V02.2	-S1							
+															+

05.01.2007		H0115ND		S01		E=15+S3B		ADAM	
03	AS BUILT	06.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		PLUG DIAGRAM	
02	Fact. -Rev.	09.11.2005	AD	Drawn	ADAM	50.3023.01		CIRCUIT-BREAKER	
01	Approval	20.09.2005	AD	Check	GROHMANN	SUBSTATION T80		PANEL	
NO.	Alteration	Date	Name	Std.	Iss. by:	Iss. for	Orig.	15	MEASUREMENT
								D009781.02.615-3.AHA	
								50.3023.01.A3.741.228	
								V=L15	
								+S3B	
								/S01	
								Sheet 54	
								54Sh.	

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