

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T81

MOTOR FEEDER
CIRCUIT DIAGRAM

A = L04 / A01

D009781.01. 604-3. AHA

50.3023.01-A4-741-107
COVER SHEET

PANEL
04

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

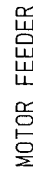
07.12.2006 HJ0115ME
A01
L04
ADAM

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

FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL	REMARKS
CONTROL	-08 -00		-00	
STATUS SIGNAL	-00, -08		-00, -08	
MEASUREMENT	I (L2)		I (L2), U(L1-L2) P (P2), Q(Q2)	
PROTECTION	MICON P130C			
ANSI	27, 32, 46, 48, 49, 50P, 50N, 50BF, 51, 51N, 59, 59N, 66, 67, 67N, 79, 810			
ANSI	81U, 86			
METERING				

[illegible]

DESIGN	MANUFACT	TYPE	RATIO	VDE	REMARKS
-T1L1	AEG	CT12	250/1/1/1A	C1: cl. 0.2FS5 15VA	
-T1L2	AEG	CT12	250/1/1/1A	C2: cl. 1FS5 15VA	
-T1L3	AEG	CT12	250/1/1/1A	C3: cl. 10P10 10VA	
-T91,T92	AEG	RKT 250/160 Gr.3			
-F1L1	ALSTOM	HE09	60/1A	C1: cl. 3FS5 1.2VA	
-F1L2	ALSTOM	HE09			4UABL
-F1L3	ALSTOM	HE09			
-C1L1	AREVA	IV1S			CAP. TAPPING
-C1L2	AREVA	IV1S			
-C1L3	AREVA	IV1S			

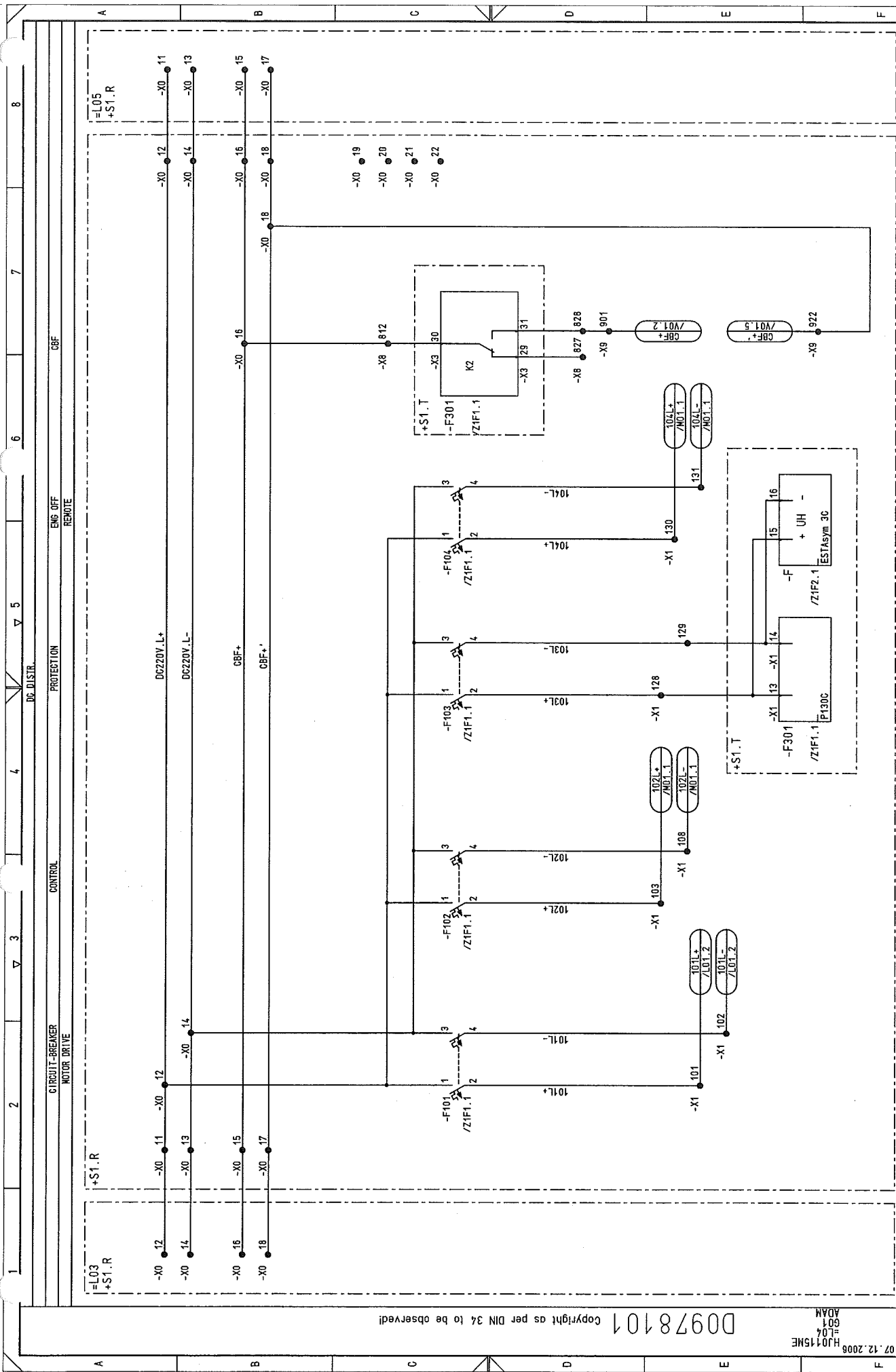


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CLIENT DOCUMENT NUMBER		RELEASE BY DOCUMENT NUMBER		VERSION STATUS		DOCUMENT IDENTIFICATION		SHEET		DESIGN					
						SORT / MATCHING		ITEM NO.							
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	S =L04		Z2S1	LIST OF EQUIPMENT PANEL		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	S =L04		Z2T1	LIST OF EQUIPMENT PANEL		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	S =L04		Z3Q1	LIST OF EQUIPMENT PANEL		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	S =L04		Z3Q2	LIST OF EQUIPMENT PANEL		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K01	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K10	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K30	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K40	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K50	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K51	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K60	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K80	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K81	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K82	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		K90	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		KPE	TERMINAL DIAGRAM		04			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		Q10	CROSS CONNECT. LIST		RELAY BOX			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		Q11	CROSS CONNECT. LIST		RELAY BOX			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.R		S01	PLUS DIAGRAM		CIRCUIT-BREAKER			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S1.T		Q15	CROSS CONNECT. LIST		RELAY BOX			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S2		Q20	CROSS CONNECT. LIST		PANEL			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S3		Q30	CROSS CONNECT. LIST		SWITCHING TRUCK			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S3		Q31	CROSS CONNECT. LIST		SWITCHING TRUCK			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S3		Q32	CROSS CONNECT. LIST		SWITCHING TRUCK			
50.3023.01-A4-741-107		D009781.01.604-3.AHA		01	02	03	V =L04 +S3		S01	PLUS DIAGRAM		CIRCUIT-BREAKER			

Copyright as per DIN 34 to be observed!
 03.12.2006
 02.12.2006
 01.12.2006

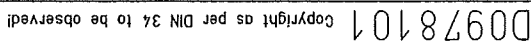
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07.12.2006		H4015ME		ADAM		G01		L04		Copyright as per DIN 34 to be observed!		D00978101	
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	PANEL		DC DISTR.		CIRCUIT DIAGRAM		50.3023.01-A4-741407	
01	Approval	30.06.2005	Rae Check/Grohmann	Orig.:		SUBSTATION T81		AREVA		MOTOR FEEDER		D009781.01.604-3.AHA	
02	FACT.-REV.	30.10.2005	Bl Drawl/Hnicks			50.3023.01		S1 al04		Typ: 03		/ 801	
03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		50.3023.01-A4-741407		S1 al04		/ 801	

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L01
ADAN

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	CIRCUIT DIAGRAM CIRCUIT-BREAKER PANEL	MOTOR DRIVE	50_3023.01-AA-74-1407	S=L04	/ L01
02	FACT. -REV.	30.10.2005	BL	Drawn	Hahnlecke	50_3023_01						
01	Approval	30.06.2005	Rha	Check	Grohmann	SUBSTATION T81						
NO.	Alteration	Date	Name	Sid.	Iss.	for	iss.by:	04	Typ: 03 MOTOR FEEDER	D009781.01_604-3_AHA	56Sh.	



D0978101 Copyright as per DIN 34 to be observed!

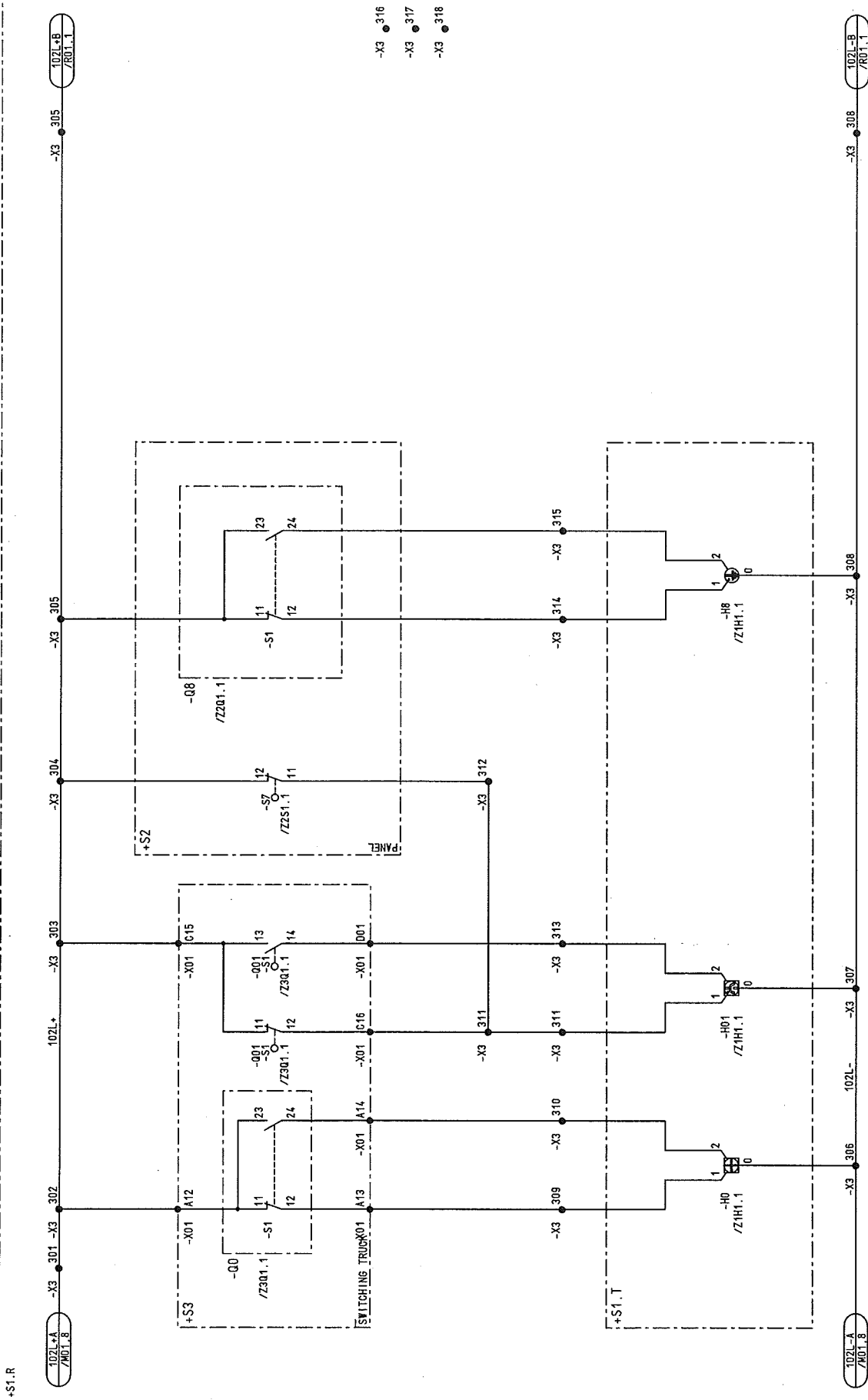
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ADAM

RELAY BOX

03	AS BUILT	5.12.2005	AD	Date	106.06.2005	US STEEL KOSICE/SLOVAKIA
02	FACT - REV.	30.10.2005	BL	Drawn	Hönicke	50.3023.01
01	Approval	30.06.2005	Hoe	Check	Grahmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for

AREVA		CIRCUIT DIAGRAM	
POSITION INDICA.		PANEL	
04		04	
Iss. by:		Iss. for	

150.3023.01-A4-741-07		S	
-L04		S	
Typ: 03		MOTOR FEEDER	
D009781.01.604-3.AHA		Sheet 9	
56Sh		8	



CIRCUIT-BREAKER WITHDRAWN OR NOT IN SERVICE

POSITION INDICA.

ON OFF

TRUCK POS. SERVICE POSITION

4/LEFT TEST. POS. OR NOT IN SERVICE

POSITION INDICA.

ON OFF

TRUCK POS. SERVICE POSITION

4/LEFT TEST. POS. OR NOT IN SERVICE

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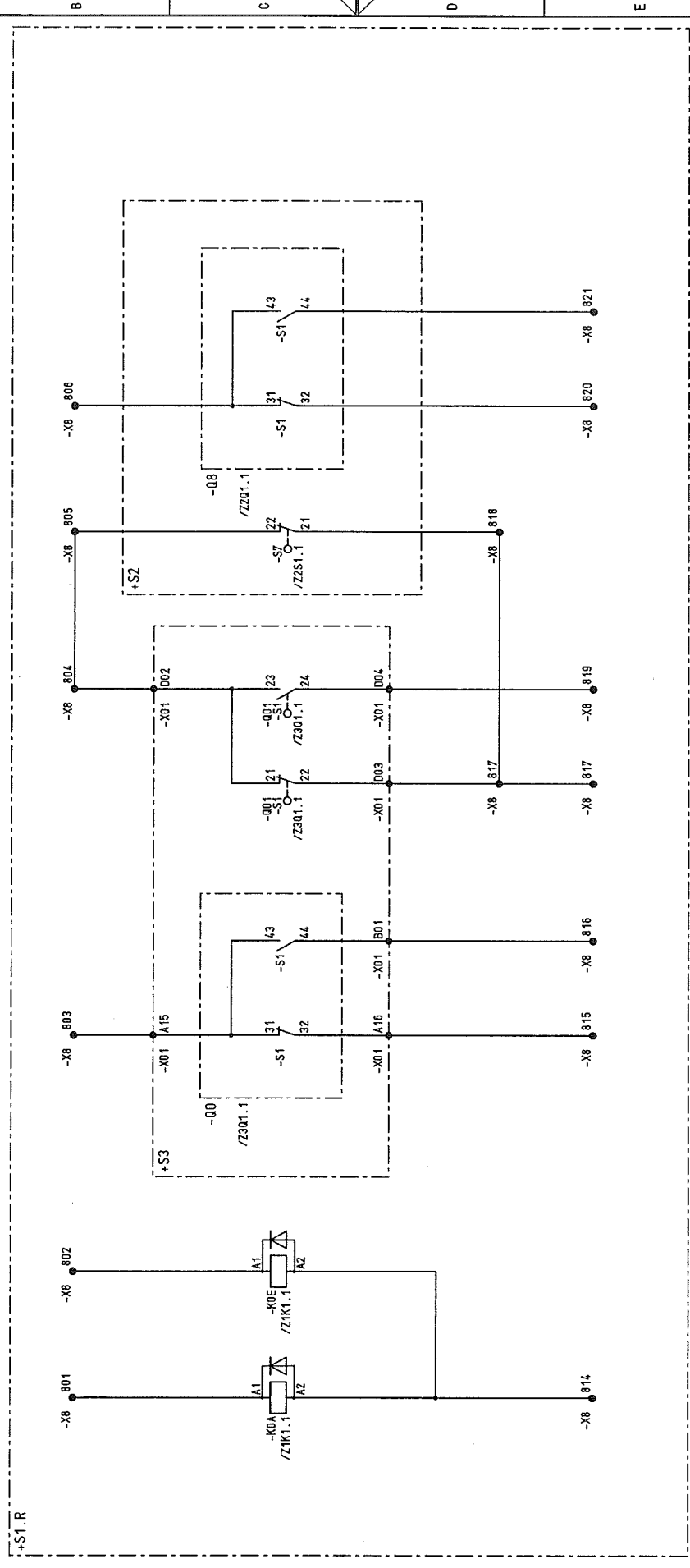
D0978101 Copyright as per DIN 34 to be observed!

07.12.2006
HJ015ME
L04
ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	FACT -REV.	30.10.2005	BL	Drawn	Hbnicka	50.3023.01
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.:

AREVA	CIRCUIT DIAGRAM	150.3023.01-A4-741407
04	INTERFERENCE	S=L04
04	PANEL	

Typ: 03	MOTOR FEEDER	D009781.01.604-3.AHA	56Sh.
Sheet 10			
/ 002			



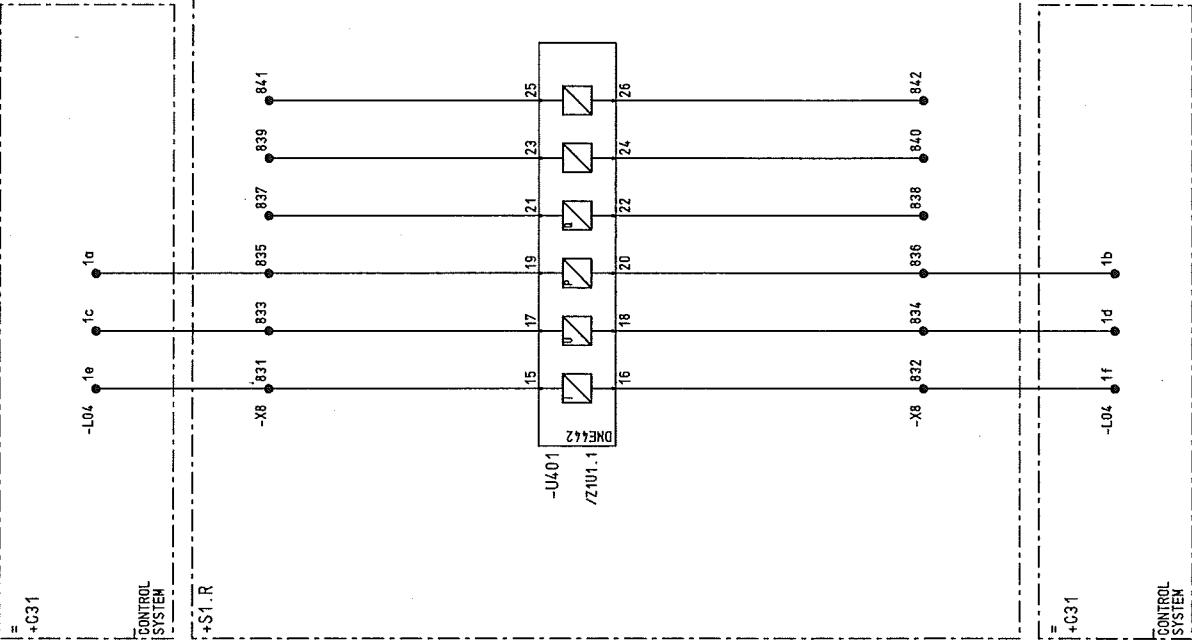
REMOTE OFF	REMOTE ON	CIRCUIT-BREAKER	OFF	ON	TRUCK POS.	CIRCUIT BREAKER WITHDRAWN	OFF	ON	EARTHING SWITCH	OFF	ON
TEST. POS. SERVICE POSITION OR NOT IN SERVICE											

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D0978101 Copyright as per DIN 34 to be observed!

07.12.2006
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004
ADAM



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

150.3023.01-A4-741-407	S1	-L04	/ 004
Typ: 03	MOTOR FEEDER	D009781.01.604-3.AHA	Sheet 12
			56Sh.

CIRCUIT DIAGRAM
INTERFACE
PANEL
04



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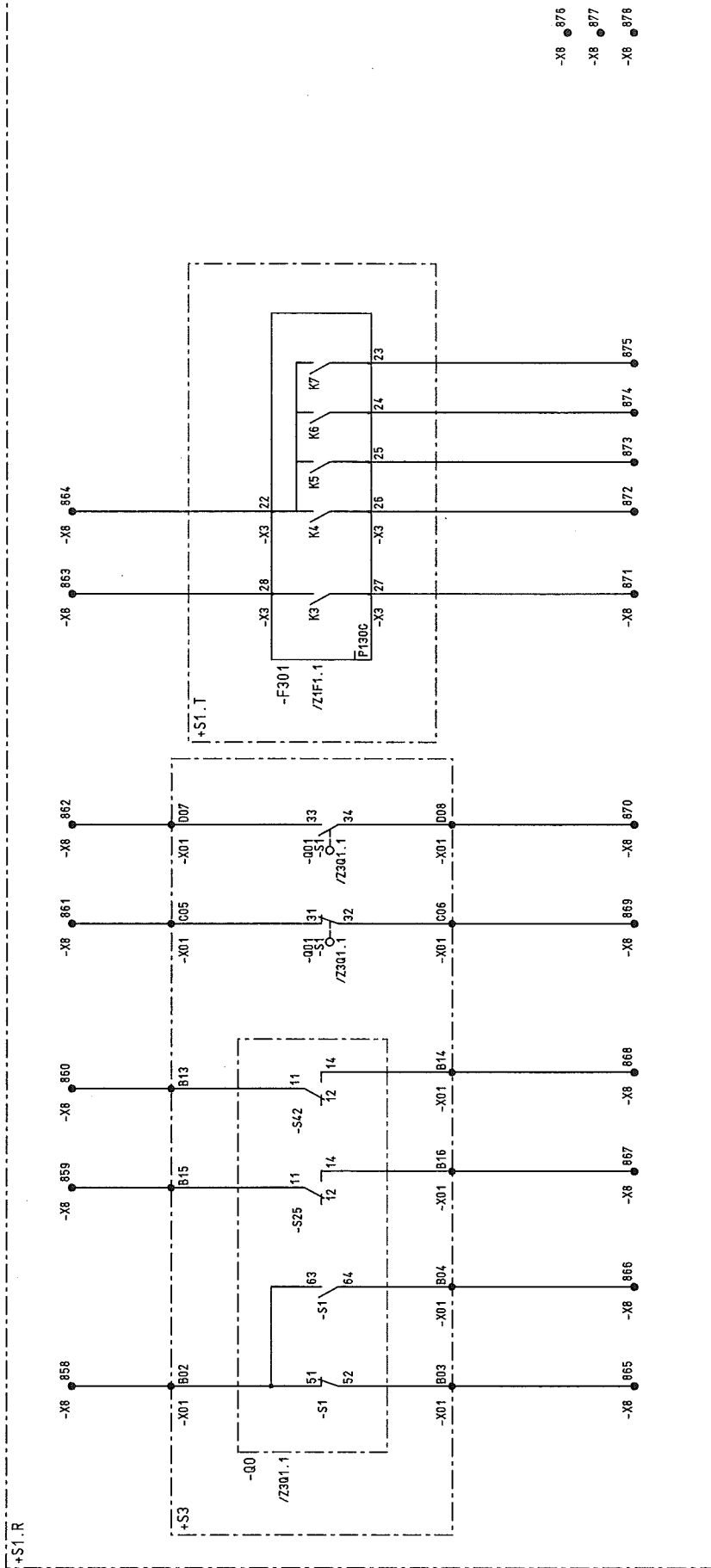
iss.for

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D0978101 Copyright as per DIN 34 to be observed!

07.12.2006
HJ015ME
L04
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ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-A4-741407	S=L04	/005
02	FACT.-REV.	30.10.2005	BL	Drawn	Häntake	50.3023.01	SPARE CONTACTS			
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81	PANEL			Sheet 13
NO.	Alteration	Date	Name	Std.	Iss. for	Orig.	Iss. by:	D009781.01.604-3-AHA	Typ: 03 MOTOR FEEDER	56Sh.



SPARE CONTACTS

TRUCK POS.
free
OUTPUT

TEST. POS.
SERVICE POSITION

CIRCUIT-BREAKER
OFF ON
SPRING CHARGED
ACTUATION
ON/OFF

POSITION INDICA.

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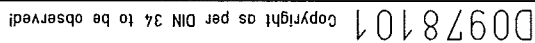
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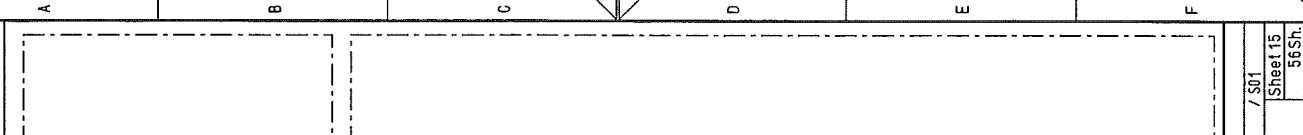
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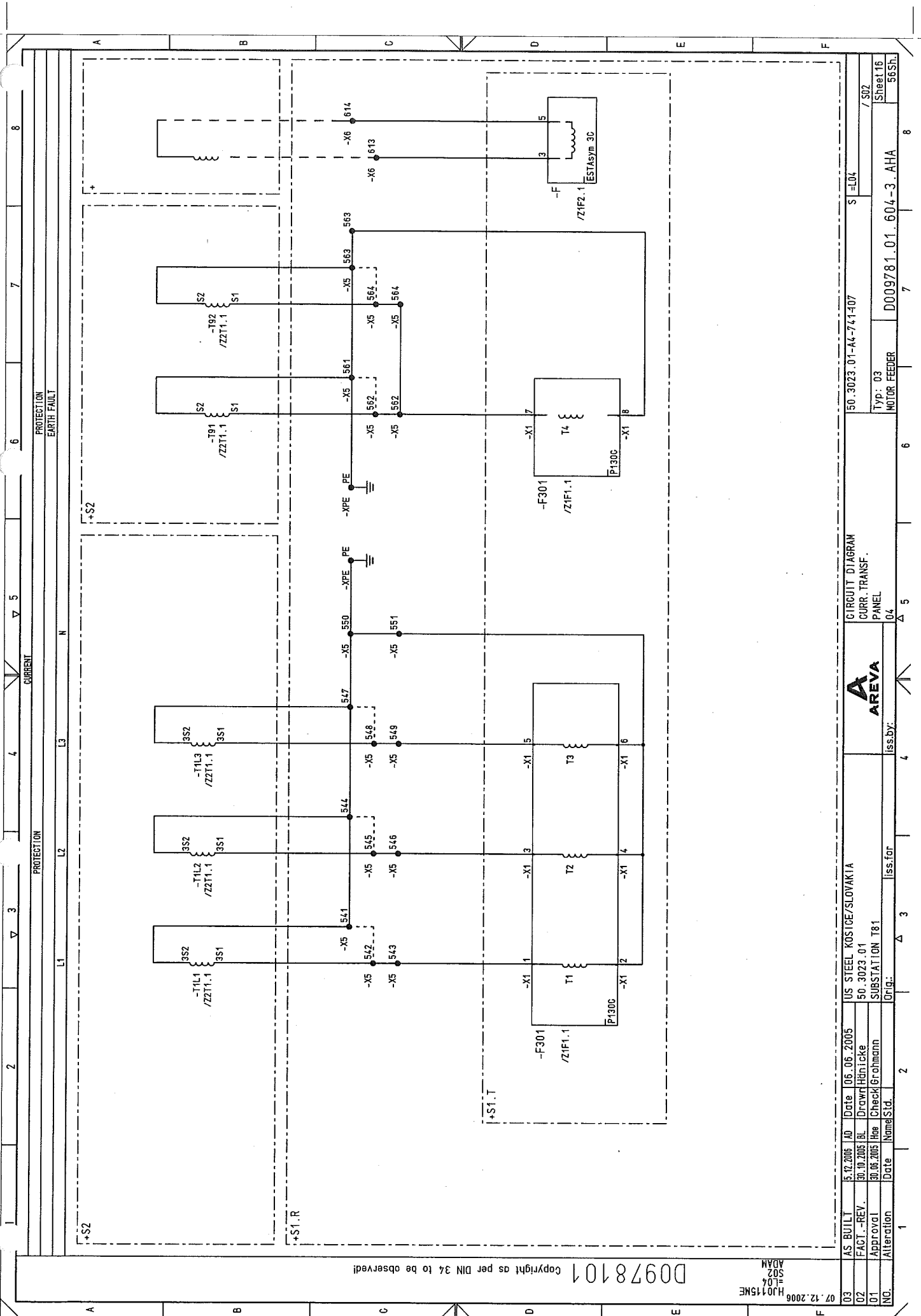
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Copyright as per DIN 34 to be observed!

07.12.2006
H10115KE
S02
ADAM

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	CIRCUIT DIAGRAM	50.3023.01-44-741-407	S1=L04	/ S02
02	FACT.-REV.	30.10.2005	BL	Drawn	Henicke	50.3023.01	CUPR. TRANSF.			
01	Approval	30.06.2005	Hec	Check	Grahmann	SUBSTATION T81	PANEL			
NO.	Alteration	Date	Name	Std.	Iss. for	Iss. by:				
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Typ: 03
MOTOR FEEDER

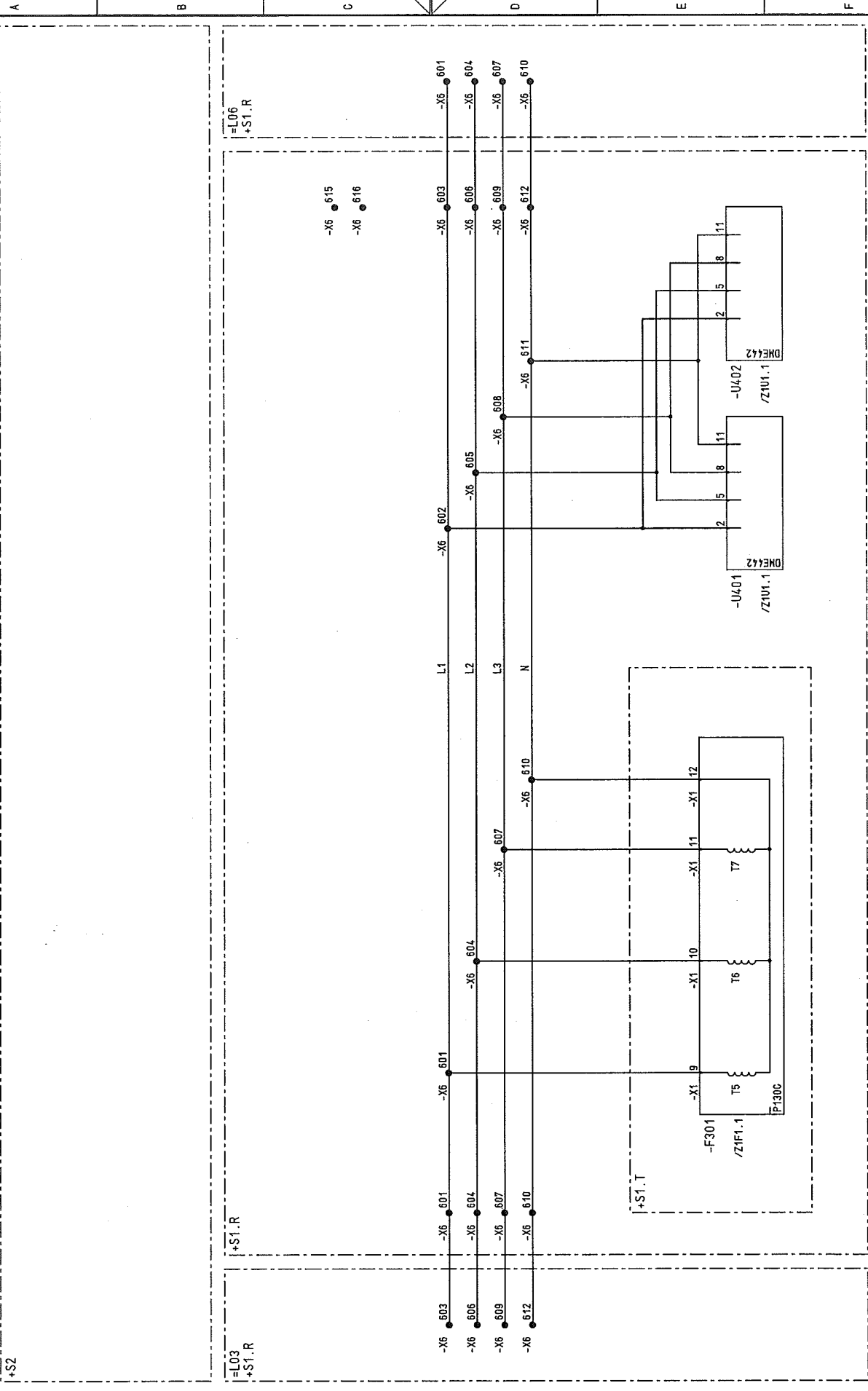
D009781.01. 604-3. AHA

Sheet 16

56Sh

D00978101 Copyright as per DIN 34 to be observed!

07.12.2006
HJ015ME
L03
T04
ADAM



03		AS BUILT	15.12.2005	AD	106.06.2005	US STEEL KOSICE/SLOVAKIA	CIRCUIT DIAGRAM		50.3023.01-A4-741-07	S	=L04
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	VOLTAGE TRANSF.				/T01
01	Approval	30.06.2005	Roe	Check	Grohmann	SUBSTATION T81	PANEL				Sheet 17
NO.	Alteration	Date	Name	Std.	Iss.	for	04		D009781.01.604-3.AHA		56 Sh.

MEASUREMENT

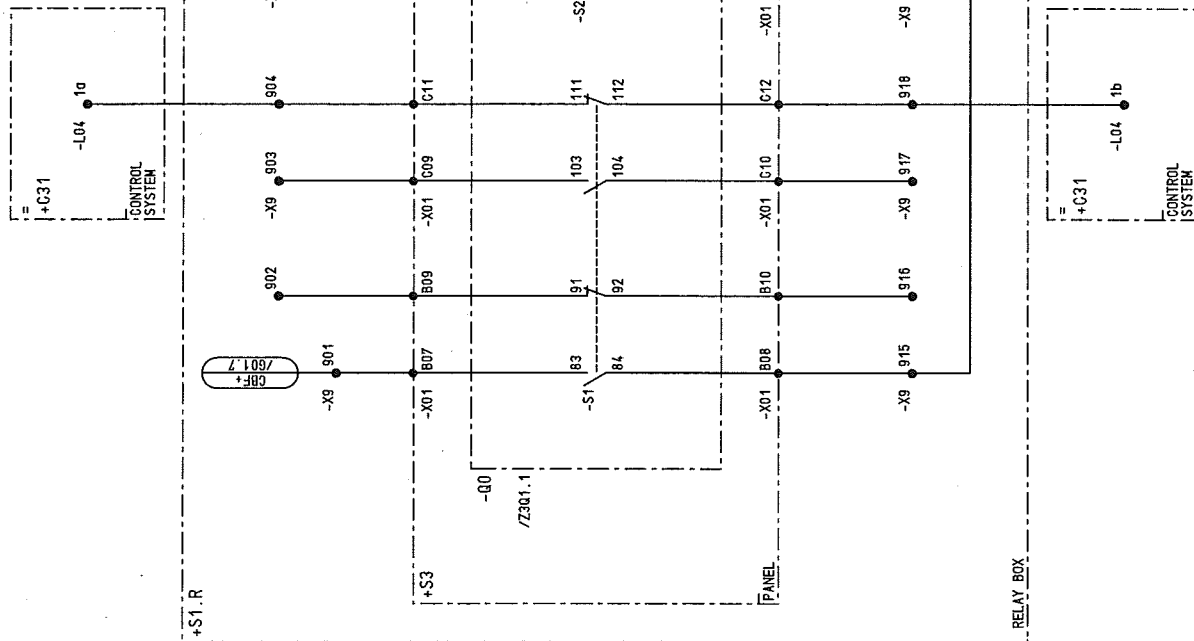
PROTECTION

VOLTAGE TRANSF.

	AS BUILT	5.12.2005	JU	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CIRCUIT DIAGRAM	S=L04	Sheet 18 56Sh.
03	FACT - REV.	30.10.2005	BL	Drawn	Hönicke	50_3023_01		I/VIS		
02	Approval	30.06.2005	Rae	Check	Grohmann	SUBSTATION T81		PANEL		
01	Alteration			Name	Std.	Orig:		Type: 03		
NOC.				Date		Iss for		MOTOR FEEDER		
						Iss by:		D009781.01_604-3_AHA		
								04		

D00978101 Copyright as per DIN 34 to be observed!

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V01
ADAM



03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
02	FACT. -REV.	30.10.2005	BL	Drawn	Hinnicke	50.3023.01
01	Approval	30.06.2005	Ree	Check	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name/Std.	Iss. for	Iss. by:	Orig.

CIRCUIT DIAGRAM	
SPARE CONTACTS	
PANEL	
RELAY BOX	
CONTROL SYSTEM	

50.3023.01-A4-741407	
S1=L04	
/ V01	
Sheet 19	
56Sh.	

D009781.01.604-3.AHA	
MOTOR FEEDER	
Typ: 03	
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DOUBLE THROW SWITCH
LOCAL / REMOTE

EARTHING SWITCH
OFF

TEST. POS. SERVICE-POSITION
ON



SPRING-ENERGY MECH
CHARGED RELEASED

CIRCUIT-BREAKER
ON OFF

ON OFF

ON OFF

ON OFF

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSTICE/SLOVAKIA		LIST OF EQUIPMENT				50.3023.01-A4-74407	S	-L04
02	FACT.-REV.	30.10.2005	BL	Drawn	Hönicke	50.3023.01			PANEL				Type: 03 MOTOR FEEDER	Sheet 20 56Sh.
01	Approval	30.06.2005	lha	Check	Grohmann	SUBSTATION T81			I04					
NO.	Alteration	Date	Name	Std.	Iss.	for	iss.by:					7	8	

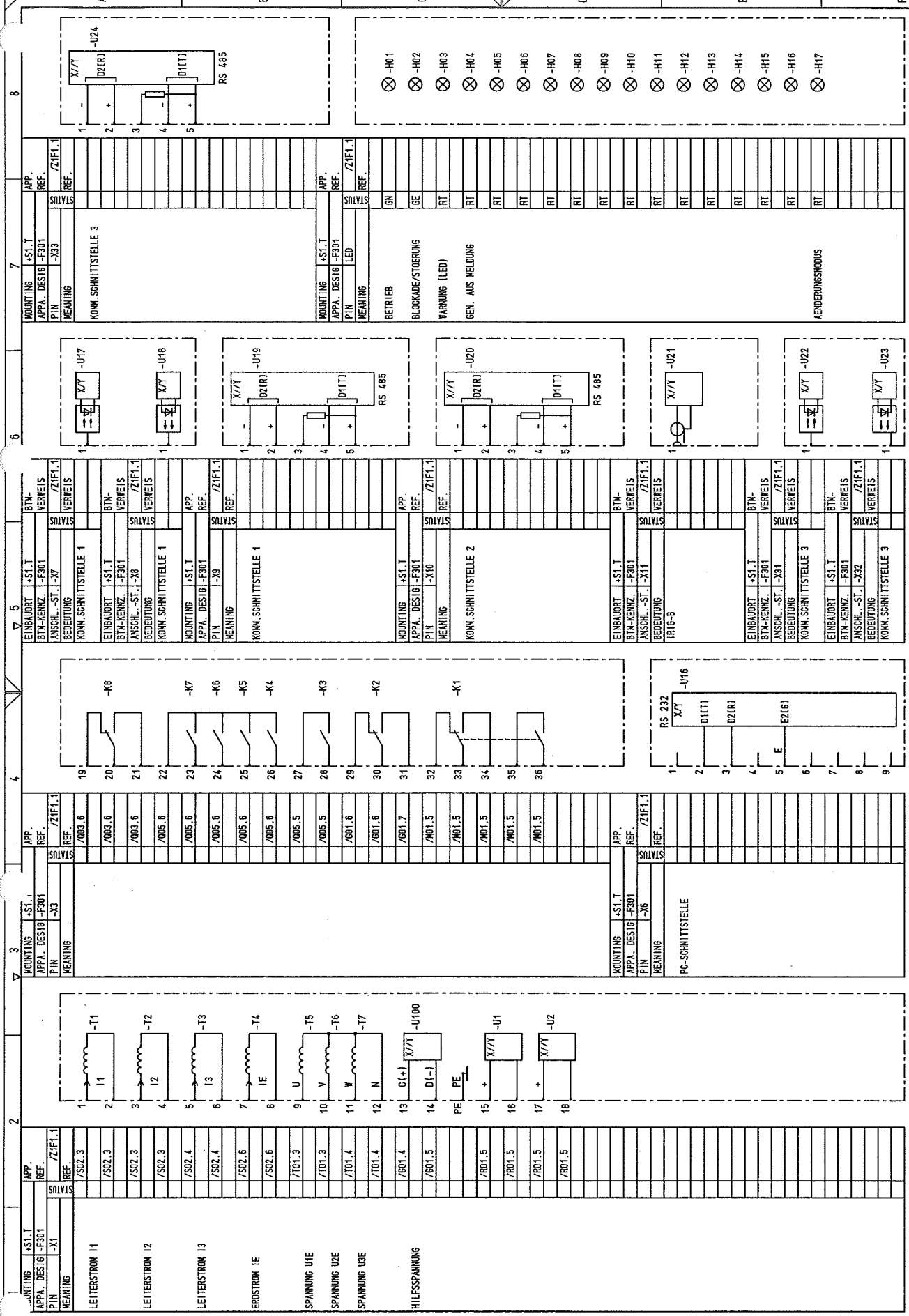
00978101 Copyright as per DIN 34 to be observed!

07.12.2006
H1015ME
Z1F10
ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA
02	FACT - REV.	30.10.2005	BL	Drawn	Hönlücke	50.3023.01
01	Approval	30.06.2005	Rae	Checked	Grohmann	SUBSTATION T81
NO.	Alteration	Date	Name	Std.	Orig.	

AREVA	PANEL	04	iss.by:
LIST OF EQUIPMENT			

50.3023.01-A4-741407	S	-L04	Z1F10
Typ: 03	MOTOR FEEDER	D009781.01.604-3.AHA	Sheet 21
			58Sh.



07.12.2006 HJ0115ME =LO4 Z1F11 ADAM

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03	AS BUILT	5.12.2006	AD	Date	06.05.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT	50.3023.01-A4-741-407	S = L04	/ ZIF11
02	FACT -REV.	30.10.2005	BL	Drawt	Hänicke	50.3023.01					
01	Approval	30.05.2005	Hoe	Check	Grohmann	SUBSTATION T81		PANEL	Typ: 03		Sheet22
INO.	Alteration	Date	Name	Std.	iss.by:	iss.for		04	MOTOR FEEDER	D009781.01.604-3.AHA	56Sh.

Stock-
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DESCRIPTION, DESIGN, TECHNICAL DATA
APPLICATION

2

MANUFACTURER, TYPE, ORDERING DATA
SETTINGS

3

APPARATUS SYMBOL DIAGRAM
REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)

4

WITH REFERENCES TO DETAILS

5

REMARK

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1

RELAY

UNBALANCE MONITORING RELAY

TYPE: ESTASYM 3C

MANUF. :
ORD.NR. :
UNBALANCE MONITORING RELAY

TECHNICAL COMPONENTS

TYPE

ORDERING NUMBER

APPLICATION

SETTING VALUES

LOCATION

ITEM DESIGNATION

-F

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07.12.2006
HJ0115NE
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STUCK-TITEL		DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION		MANUFACTURER, TYPE, ORDERING DATA SETTINGS		MOUNTING		APPA. DESIG.		APPARATUS SYMBOL DIAGRAM		REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)		REMARK	
1	STELLUNGSMELDER	Manuf. : messMa	Ord.No. : EST-L-1746-08-330-21	Type: EST-L											
	RUECKMELDER	: 220VAC/220VDC		Type		: GELB		Ordering number							
Application		CIRCUIT-BREAKER		ON/OFF		Settings		Location		+S1.T		Item designation		-H0	
1	STELLUNGSMELDER	Manuf. : messMa	Ord.No. : EST-L-1746-08-231-21	Type: EST-L											
	RUECKMELDER	: 220VAC/220VDC		Type		: GELB		Ordering number							
Application		SWITCHING TRUCK		SERVICE BUS, TEST POS.		Settings		Location		+S1.T		Item designation		-H01	
1	STELLUNGSMELDER	Manuf. : messMa	Ord.No. : EST-L-1746-08-131-21	Type: EST-L											
	RUECKMELDER	: 220VAC/220VDC		Type		: GELB		Ordering number							
Application		EARTHING SWITCH		OFF/ON		Settings		Location		+S1.T		Item designation		-H8	

07.12.2006

HJ015ME

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03	AS BUILT	5.12.2006	AD	Date	06.06.2005	IUS STEEL KOSTICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01-AA-741407		S1=L04		/ ZIH1	
02	FACT -REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL		Typ: 03		D009781.01.604-3.AHA		Sheet24	
01	Approval	30.06.2005	lke	Checked	Grohmann	SUBSTATION T81		iss. for		MOTOR FEEDER				Sheet24	
NO.	Alteration	Date	Named	Std.	2	Orig.:		iss. by:		04				56SL	

03	AS BUILT	15.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		150.3023.01-A4-741-407		S1=L04		/ Z1H1	
02	FACT.-REV.	30.10.2005	BL	Drawn	Häntcke	50.3023.01		PANEL		Typ: 03		MOTOR FEEDER		D009781.01.604-3-AHA	
01	Approval	30.06.2005	Hae	Checked	Grohmann	SUBSTATION T81		04						Sheet 24	
NO.	Alteration	Date	Name	Std.	Orig.	Iss.for		Iss.by:						56Sh.	

03	AS BUILT	5.12.2005	10	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	LIST OF EQUIPMENT		50_3023_01-A4-741-07		S=L04	/ ZIKI
02	FACT.-REV.	30.10.2005	BL	Drawn	Honticke	50_3023_01							
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		PANEL	Type: 03	MOTOR FEEDER		Sheet 25	56Sh.
NO.	Alteration	Date	Name	Std.		Orig.	iss. for	iss. by:	04	D009781.01.604-3.AHA			

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01-A4-741-107	S	=L04
02	FACT.-REV.	30.10.2005	BL	Date	30.10.2005	50.3023.01		PANEL		Typ: 03	/ ZIPI	
01	Approval	30.06.2005	Hoe	Date	30.06.2005	SUBSTATION T&I		04		MOTOR FEEDER	Sheet 26	
IND.	Alteration			Date		Orig.		Iss. for		D009781.01.604-3.AHA	56Sh.	

07.12.2006 HJ0115ME


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03

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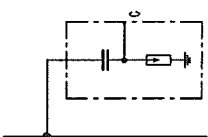
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DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	(CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	WITH REFERENCES TO DETAILS	REMARK
1	MEAS. UNIT	Manuf. WEIGEL	Type: E072K				
MOVING-IRON AMMETER		Ord.No. :					
SCALE:		100 % OVERLOAD	TRANSFORMER CONNECTION/1A.				
MEASUREMENT VARIABLE: 1A							
Technical components per device		Typ	Ordering number				
Application		Settings	Location	Item designation			
CURRENT MEAS L2		+S1.T	-P402				

AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT				50_3023_01-A4-741407		S	=L04	/ Z151
FACT -REV.	30.10.2005	BL	Drawn	Hönicke	50_3023_01										
Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81										
Issued for		Iss. by:		Orig.:		Iss. for		Iss. by:		PANEL		Type: 03		Sheet 27	
1		2		3		4		5		6		7		8	

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07.12.2006
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1	2	3	4	5	6	7	8	
DESCRIPTION, DESIGN, APPLICATION	TECHNICAL DATA	MANUFACTURER, TYPE, ORDERING MOUNTING	DATA APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)				REMARK
3	IVIS POST INSULATOR	Manuf.: ALSTOM/SW Ord.No.:	Type: IVIS					
Technical components per device				Ordering number				
App Location				Location				Line designation
CAP. TAPPING				+SZ				-CL1
CAP. TAPPING				+SZ				-CL2
CAP. TAPPING				+SZ				-CL3
								/T02.2
								/T02.4
								/T02.6

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT		50.3023.01-A4-741407	S	=L04	/ Z2C1	
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01		PANEL						
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81		iss.by:						
NO.	Alteration	Date	Name	Std.	Orig.	iss.for		iss.by:						
										Typ: 03	MOTOR FEEDER		D009781.01.604-3_AHA	Sheet 29
													56Sh.	

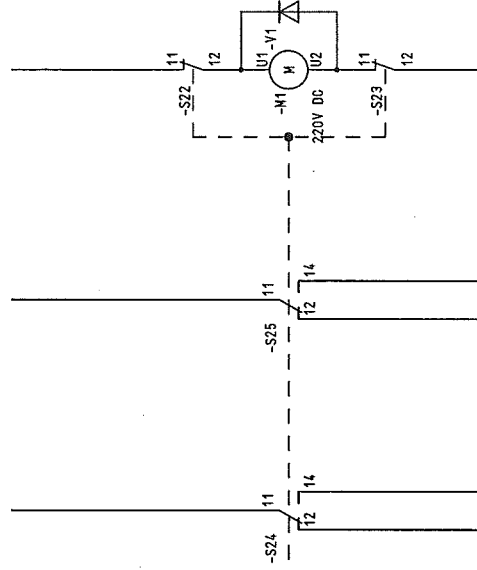
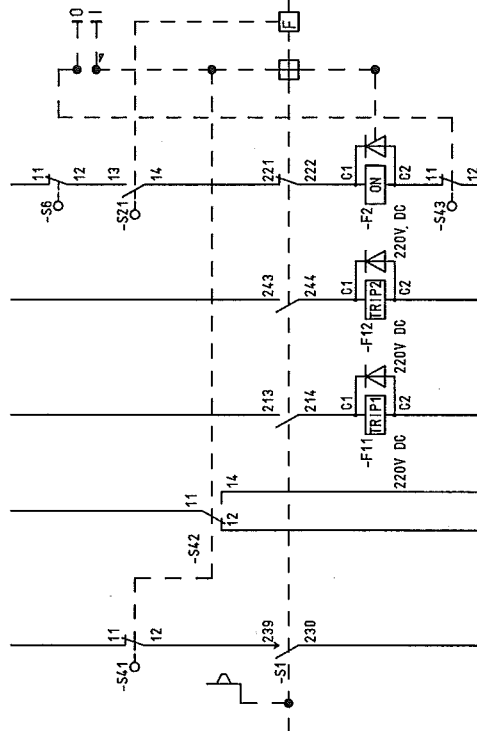
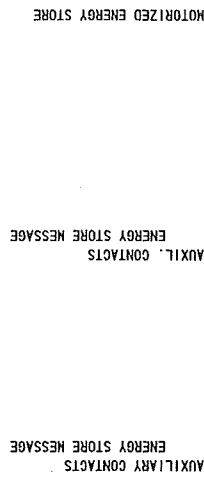
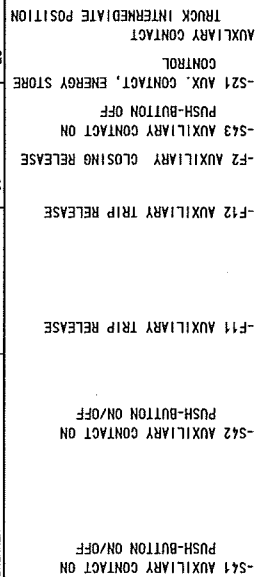
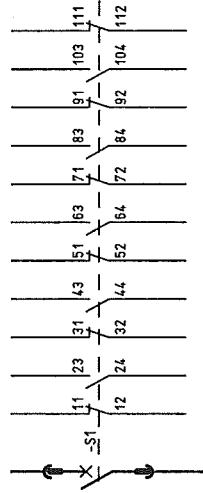
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03	AS BUILT	5.12.2008	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT			50_3023_01-44-741407	S=L04	
02	FACT. -REV.	30.10.2005	BL	Drawn	Hänicke	50_3023_01							
01	Approval	30.06.2005	Hae	Check	Grohmann	SUBSTATION T81			PANEL	Type: 03		Sheet 31	/ ZD01
INO.	Alteration		Date	Name	Std.	Orig.:		iss. for	iss. by:	MOTOR FEEDER	D009781.01.604-3.AHA	56SL	
		1			2	Δ 3		4	Δ 5		6	7	8

	AS BUILT	5.12.2006	ID	Date	10.06.2005	US STEEL KOSICE/SLOVAKIA		LIST OF EQUIPMENT										50_3023_01-AA-741407	S =L04		
03	FACT -REV.	30.10.2005	BL	DRAWN	HÄNICKE	50_3023_01													/ ZST		
02	Approval	30.06.2005	Hoe	CHECK	GROHMANN	SUBSTATION T81		PANEL										Type: 03	Sheet 32		
01	Alteration		Name/Std.			Orig:	iss.for	iss.by:	04										MOTOR FEEDER	D009781.01.604-3.AHA	56Sh.
NO.		1			2		Δ	3		4		Δ	5		6		7		8		

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	<div>AREVA</div>	LIST OF EQUIPMENT		50_3023_01-A4-741407		S	=104
01	FACT - REV.	30.10.2005	BL	Draught	Hänticke	50_3023_01		PANEL		Typ: 03		Sheet 33	
02	Approval	30.06.2005	Hoe	Check	Grochmann	SUBSTATION T81		04		MOTOR FEEDER		565h	
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for		iss. by:		D009781 01.604-3.AHA			

[illegible]



NO.	AS BUILT	5.12.2006	AD	Date	10.06.2005	US STEEL KOSTICE/SLOVAKIA
003	FACT -REV.	30.10.2005	BL	Drawn	Hänicke	50_3023_01
002	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTANTION T81
NO.	Alteration					Orig.: Iss.

PANEL
04

50.3023.01-A4-741407	S=L04
Typ: 03 MOTOR FEEDER	D009781.01.604.3.AHA

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07.12.2006

NO 1 CABLE		WIRES USED SHEET STATE												CABLE-TYPE SECTION		CORES		-ROUTE		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø		COLOR		TERM. TYPE			
RÜCK-REF.		NO												CORES/ LINE		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERN		CORES/ LINE		REMARK	
		1	2	3	4	5	6	7	8	9	10	11	12			DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERN		CORES/ LINE		REMARK	
/001.2														2	=L03	+S1.R -X0	2	AC230V.L1	1												
/001.7														2	=L05	+S1.R -X0	1	AC230V.L1	2												
/001.2														2	=L03	+S1.R -X0	4	N	3												
/001.7														2	=L05	+S1.R -X0	3	N	4												
/001.3																			5												
/001.4																			6												
/001.3																			7												
/001.4																			8												
/001.7																			9												
/001.7																			10												
/001.2														2	=L03	+S1.R -X0	12	DC220V.L1	11												
/001.7														2	=L05	+S1.R -X0	11	DC220V.L1	12												
/001.2														2	=L03	+S1.R -X0	14	DC220V.L1	13												
/001.7														2	=L05	+S1.R -X0	13	DC220V.L1	14												
/001.2														2	=L03	+S1.R -X0	16	CBF+	15												
/001.7														2	=L05	+S1.R -X0	15	CBF+	16												
/001.2														2	=L03	+S1.R -X0	18	CBF+	17												
/001.7														2	=L05	+S1.R -X0	17	CBF+	18												
/001.7																			19												
/001.7																			20												
/001.7																			21												
/001.7																			22												

007.12.2006

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03 AS BUILT 5.12.2006 AD Date 06.06.2005

02 FACT -REV. 30.10.2005 RL Drawn Hännicke

01 Approval 30.06.2005 Hae Check Grohmann

00 Alteration Date Nomd Std.

US STEEL KOSICE/SLOVAKIA

50.3023.01

SUBSTATION T81

Orig.

TERMINAL DIAGRAM

PANEL 04

Iss.by:

50.3023.01-AA-741-07

V=L04

+S1.R

/K01

Sheet36

5650

0009781.01.604-3.AHA

MOTOR FEEDER

Typ: 03

50.3023.01-AA-741-07

NO. CABLE		WIRES USED SHEET STATE		CABLE-TYPE SECTION		CORES		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø		COLOR		TERM. TYPE		8	
RÜCK-REF.		NO		DESTINAT. DESIG.		EXTERNAL		POT		NO		DESTINAT. DESIG.		INTERN		CORES/LINE		REMARK	
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/G01.2												-F101							
/G01.2												-F101							
/N01.4												+S1.T -F							
/N01.5												-X8							
/N01.6												-K201							
/N01.3												-K201							
/N01.7												+S1.T -S200							
/G01.3												-F102							
/N01.3																			
/N01.6												-X01							
/N01.7												-K0E							
/N01.8												-K201							
/N01.3												+S1.T -F							
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/G01.4												-F103							
/G01.5												-F103							
/N01.3												+.. +. -X.							
/N01.3												-K201							
/N01.8																			
/N01.6												-K201							
/N01.5												-X8							

03 AS BUILT 5.12.2005 AD Date 06.06.2005		US STEEL KOSTICE/SLOVAKIA		50.3023.01		V = 0.04	
02 FACT -REV. 30.10.2005 BL Drawn Hnacke				50.3023.01-A4-741-407		+S1.R	
01 Approval 30.06.2005 JRe Check Gromann		SUBSTATION T81		D009781.01.604-3.AHA		/ K10 Sheet 37 56Sh.	
NO. Alteration Date Name Std.		Iss. for		Typ: 03 MOTOR FEEDER		8	

D00978101 Copyright as per DIN 34 to be observed!

03	AS BUILT	5.12.2005	10	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM		50.3023.01-A4-741-407		V = L04
02	FACT. - REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01		PANEL		Typ: 03		+S1.R
01	Approval	30.06.2005	106	Check	Grohmann	SUBSTAT ION 181		04		MOTOR FEEDER		Sheet 38
NO.	Alteration	Date	Name	Sid.	Orig.	iss. for	iss. by:					565h.

003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOS/GE/SLOVAKIA		TERMINAL DIAGRAM		50.3023.01-A4-741407	V=L04
002	FACT. - REV.	30.10.2005	BL	Drawn	Hänticke	50.3023.01		PANEL			\$1.R
001	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81		Type: 03			
NO.	Alteration	Date	Name	Sid.	Ort	Iss. for	Iss. by:	MOTOR FEEDER		D009781.01.604-3.AHA	56Sh.

03	AS BUILT	5.12.2005	AP	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA		TERMINAL DIAGRAM	50_3023_01-A4-741-07	V = L04 +S1.R	/ K50
02	FACT - REV.	30.10.2005	BL	Drawn	Hönlücke	50_3023_01					
01	Approval	30.10.2005	Hle	Check	Grohmann	SUBSTATION T81					
NO.	Alteration	Date	Name/Sig.	Orig.	Iss. for	Iss. by:	PANEL 04 Type: 03 MOTOR FEEDER D009781.01.604-3.AHA 56Sh.				

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CABLE		WIRES USED SHEET/STATE		CABLE-TYPE SECTION		CORES		CIRCUIT DIAGRAM		CABLE MATERIAL		Ø COLOR		TERM. TYPE	
										H07V-K 1.5MM2 SW H07V-K 2.5MM2 SW		SW SW		STANDARD: UK5N	

03	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM		50.3023.01-46-741-107		V =L04		
02	FACT - REV.	30.10.2005	BL	Drawn	Häntcke	50.3023.01			PANEL				+S1.R	
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81			Typ: 03		MOTOR FEEDER		Sheet 43	
NO.	Alteration	Date	Name	Std.	Date	Iss. for	iss. by:	04		D009781.01.604-3.AHA		56Sh.		

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM	50_3023_01-A4-744-407			V =104		
02	FACT -REV.	30.10.2005	BL	Drawn	Hänicke	50_3023_01			PANEL	Type: 03			Sheet 44	/ K81
01	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81			04	MOTOR FEEDER			D009781_01_604-3_AHA	565h
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for		Iss. by:						

07.12.2006												D0978101											
03 AS BUILT 5.12.2005 AD Date 05.06.2005 US STEEL KOSTICE/SLOVAKIA												TERMINAL DIAGRAM											
02 FACT.-REV. 30.10.2005 BL Drawn Hanička 50.3023.01												PANEL											
01 Approval 30.05.2005 Hra Check Grohmann SUBSTATION T81												iss.by:											
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003	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	 AREVA	TERMINAL DIAGRAM		50_3023_01-44-741407	V = 0,4		
002	FACT. - REV.	30.10.2005	BL	Drawn	Hänticke	50_3023_01			PANEL			\$S1.R	/ KPE
001	Approval	30.05.2005	lha	Check	Grohmann	SUBSTATION T81			Type: 03				Sheet 17
NO.	Alteration	Date	Name	Sd.	Orig:				MOTOR FEEDER		D009781.01.604-3.AHA	56Sh	
								iss.by:		04			

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM OR SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
G01	D0220V.L+ 2 2.5MM2	H07V-K SW	-X0	12 -F101	1 -F102	1 -F103	1 -F104		
G01	D0220V.L- 2 2.5MM2	H07V-K SW	-X0	14 -F101	3 -F102	3 -F103	3 -F104		
M01	102L+ 1 1.5MM2	H07V-K SW	-X1	104 -U401	13 -U402				
M01	102L- 1 1.5MM2	H07V-K SW	-X1	108 -U401	14 -U402				
M01	1 1.5MM2	H07V-K SW	-X1	117 -K0A	14 -K200				
M01	1 1.5MM2	H07V-K SW	-X1	118 -K0A	13 -K0E				
M01	1 1.5MM2	H07V-K SW	-X1	119 -K0E	14 -K200	13 -K200	21		
Q02	1 1.5MM2	H07V-K SW	-X8	814 -K0A	A2 -K0E				
Q03	1 1.5MM2	H07V-K SW	-X8	808 -F101	12 -F102	12 -F103	12 -F104		
Q03	1 1.5MM2	H07V-K SW	-X8	823 -F101	11 -F102	11 -F103	11 -F104		
R01	1 1.5MM2	H07V-K SW	-X4	-K0A	22 -K0E	21			
R01	1 1.5MM2	H07V-K SW	-X4	416 -F101	22 -F102	22 -F103	22 -F104		
R01	1 1.5MM2	H07V-K SW	-X4	417 -F101	21 -F102	21 -F103	21 -F104		
S01	2 2.5MM2	H07V-K SW	-X5	-U401	3 -U402	1			
S01	2 2.5MM2	H07V-K SW	-X5	-U401	6 -U402	4			
S01	2 2.5MM2	H07V-K SW	-X5	-U401	9 -U402	7			
S01	2 2.5MM2	H07V-K SW	-X5	511 -U402	3 -U402	6 -U402	9		
T01	L1 1 1.5MM2	H07V-K SW	-X6	602 -U401	2 -U402	2			
T01	L2 1 1.5MM2	H07V-K SW	-X6	605 -U401	5 -U402	5			
T01	L3 1 1.5MM2	H07V-K SW	-X6	608 -U401	8 -U402	8			
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOS/DE/SLOVAKIA	GROSS CONNECT. LIST	150.3023.01-A4-741407	V =L04
02	FACT.-REV.	30.10.2005	BL	Drawn	HdnTake	50.3023.01	RELAY BOX		+S1.R
01	Approval	30.06.2005	Hoe	Check	Grohmann	SUBSTATION T81	PANEL		Sheet 48
NO.	Alteration	Date	Name	Std.	Iss.	for	Iss.	by:	58Sh.



AREVA

PANEL

RELAY BOX

CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed!

HJ0115ME
=L04+S1
Q11
ADAM

ADAM

CROSS CONNECTION

[illegible]

Copyright as per DIN 34 to be observed!

HJ0115NE
=LO4+S1
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ADAM

03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSICE/SLOVAKIA		CROSS CONNECT. LIST RELAY BOX PANEL	50.3023.01-A4-741407	V = 04 4S1.T	Sheet 51 56Sh.
02	FACT. -REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01					
01	Approval	30.05.2005	Hie	Check	Grohmann	SUBSTATION T81					
NO.	Alteration	Date	Name	Std.		Orig.:	iss. for	iss. by:	04	MOTOR FEEDER	D009781.01.604-3.AHA

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 /001.2 H05V-K 1.0MM2 SW	101	-X8 /002.4 H05V-K 1.0MM2 SW	816	-X1 /001.5	134	-X3 /001.3 H05V-K 1.0MM2 SW	313			
2	-X1 /001.2 H05V-K 1.0MM2 SW	102	-X8 /005.2 H05V-K 1.0MM2 SW	858	-X1 /001.5 H05V-K 1.0MM2 SW	110	-X8 /002.5 H05V-K 1.0MM2 SW	804			
3	-X1 /001.6 H05V-K 1.0MM2 SW	116	-X8 /005.2 H05V-K 1.0MM2 SW	865	-X8 /002.5 H05V-K 1.0MM2 SW		-X8 /002.5 H05V-K 1.0MM2 SW	817			
4	-X1 /001.6 H05V-K 1.0MM2 SW	110	-X8 /005.2 H05V-K 1.0MM2 SW	866	-X8 /002.5 H05V-K 1.0MM2 SW		-X8 /002.5 H05V-K 1.0MM2 SW	819			
5	-X1 /001.7	121	-X0 /001.3 H05V-K 1.0MM2 SW	5	-X8 /005.4 H05V-K 1.0MM2 SW	861					
6	-X1 /001.7 H05V-K 1.0MM2 SW	123	-X0 /001.3 H05V-K 1.0MM2 SW	7	-X8 /005.4 H05V-K 1.0MM2 SW	869					
7	-X9 /001.4 H05V-K 1.0MM2 SW	905	-X9 /001.2 H05V-K 1.0MM2 SW	901	-X9 /001.3 H05V-K 1.0MM2 SW		-X8 /005.4 H05V-K 1.0MM2 SW	862			
8	-X9 /001.3 H05V-K 1.0MM2 SW	919	-X9 /001.2 H05V-K 1.0MM2 SW	915	-X9 /001.3 H05V-K 1.0MM2 SW		-X8 /005.4 H05V-K 1.0MM2 SW	870			
9	-X9 /001.4 H05V-K 1.0MM2 SW	920	-X9 /001.2 H05V-K 1.0MM2 SW	902	-X9 /001.3 H05V-K 1.0MM2 SW	903					
10	-X4 /001.3 H05V-K 1.0MM2 SW	410	-X9 /001.2 H05V-K 1.0MM2 SW	916	-X9 /001.3 H05V-K 1.0MM2 SW	917					
11	-X4 /001.3 H05V-K 1.0MM2 SW	411	-X9 /001.4 H05V-K 1.0MM2 SW	906	-X9 /001.3 H05V-K 1.0MM2 SW	904	-X9 /001.5 H05V-K 1.0MM2 SW	907			
12	-X3 /001.2 H05V-K 1.0MM2 SW	302	-X9 /001.4 H05V-K 1.0MM2 SW	921	-X9 /001.3 H05V-K 1.0MM2 SW	918	-X9 /001.5 H05V-K 1.0MM2 SW	922			
13	-X3 /001.2 H05V-K 1.0MM2 SW	309	-X8 /005.3 H05V-K 1.0MM2 SW	860	-X8 /002.5 H05V-K 1.0MM2 SW						
14	-X3 /001.2 H05V-K 1.0MM2 SW	310	-X8 /005.3 H05V-K 1.0MM2 SW	868	-X8 /002.5 H05V-K 1.0MM2 SW						
15	-X8 /002.3 H05V-K 1.0MM2 SW	803	-X8 /005.3 H05V-K 1.0MM2 SW	859	-X3 /001.3 H05V-K 1.0MM2 SW	303					
16	-X8 /002.3 H05V-K 1.0MM2 SW	815	-X8 /005.3 H05V-K 1.0MM2 SW	867	-X3 /001.3 H05V-K 1.0MM2 SW	311					
+	+	+	+	+	+	+	+	+	+	+	+

Subject to technical modifications
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03	AS BUILT	5.12.2005	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA	50.3023.01	PLUG DIAGRAM	50.3023.01-A4-741-107	V=L04	/S01
02	FACT.-REV.	30.10.2005	BL	Drawn	Hahnicke			CIRCUIT-BREAKER		+S1.R	
01	Approval	30.06.2005	Reb	Check	Grohmann	SUBSTATION T81		PANEL			Sheet50
NQ.	Alteration	Date	Name/Sid.	Iss.far	Iss.by:	Orig.:		04	MOTOR FEEDER	D009781.01.604-3.AHA	56Sh.

CROSS CONNECTION

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003	AS BUILT	5.12.2006	AD	Date	06.06.2005	US STEEL KOSTICE/SLOVAKIA
002	FACT. -REV.	30.10.2005	BL	Drawn	Hänicke	50_3023.01
001	Approval	30.06.2005	Hoe	Checked	Grohmann	SUBSTATION T81
000	Alteration	Date	Name	Std	Orla:	Iss:

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CROSS CONNECT. LIST
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PANEL
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50.3023.01-A4-741-107	Typ: 03 MOTOR FEEDER	D00
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Sheet 52	56 Sh.
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CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
D01	0 1.0MM2	H05V-K SW	-X01	B05 -S1	-00 71				
D01	0 1.0MM2	H05V-K SW	-X01	B06 -S1	-00 72				
L01	101L+ 0 1.0MM2	H05V-K SW	-X01	A01 -S22	-00 11				
L01	101L- 0 1.0MM2	H05V-K SW	-X01	A02 -S23	-00 12				
M01	0 1.0MM2	H05V-K SW	-F11	-00 C1 -S1	-00 214				
M01	0 1.0MM2	H05V-K SW	-F2	-00 C1 -S1	-00 222				
M01	0 1.0MM2	H05V-K SW	-F2	-00 C2 -S43	-00 11				
M01	0 1.0MM2	H05V-K SW	-S1	-00 Z21 -S21	-00 14				
M01	0 1.0MM2	H05V-K SW	-S21	-00 13 -S6	-00 12				
M01	0 1.0MM2	H05V-K SW	-X01	A03 -S1	-00 213				
M01	102L- 0 1.0MM2	H05V-K SW	-X01	A04 -F11	-00 C2				
M01	0 1.0MM2	H05V-K SW	-X01	A05 -S6	-00 11				
M01	0 1.0MM2	H05V-K SW	-X01	A06 -S43	-00 12				
Q01	102L+ 0 1.0MM2	H05V-K SW	-X01	A12 -S1	-00 11 -S1	-00 23			
Q01	0 1.0MM2	H05V-K SW	-X01	A13 -S1	-00 12				
Q01	0 1.0MM2	H05V-K SW	-X01	A14 -S1	-00 24				
Q01	102L+ 0 1.0MM2	H05V-K SW	-X01	C15 -S1	-001 11 -S1	-001 13			
Q01	0 1.0MM2	H05V-K SW	-X01	C16 -S1	-001 12				
Q01	0 1.0MM2	H05V-K SW	-X01	D01 -S1	-001 14				
Q02	0 1.0MM2	H05V-K SW	-X01	A15 -S1	-00 31 -S1	-00 43			

07.12.2006		05.06.2005		US STEEL KOSICE/SLOVAKIA		GROSS CONNECT. LIST		50.3023.01-44-741-407		VI=L04	
AS BUILT		Date		50.3023.01		SWITCHING TRUCK				+S3	
FACT.-REV.		30.10.2005		Drawn Hnticke						/ 030	
Approval		30.06.2005		Check Grolmann						Sheet 53	
Alteration		Date		Name/Std.		Iss. for		Iss. by:		56Sh.	
								D009781.01.604-3.AHA		Typ: 03	
								MOTOR FEEDER		8	

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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
Q02	0 1.0MW2	H05V-K SW	-X01	A16 -S1	-00 32				
Q02	0 1.0MW2	H05V-K SW	-X01	B01 -S1	-00 44				
Q02	0 1.0MW2	H05V-K SW	-X01	D02 -S1	-001 21 -S1	-001 23			
Q02	0 1.0MW2	H05V-K SW	-X01	D03 -S1	-001 22				
Q02	0 1.0MW2	H05V-K SW	-X01	D04 -S1	-001 24				
Q05	0 1.0MW2	H05V-K SW	-X01	B02 -S1	-00 51 -S1	-00 63			
Q05	0 1.0MW2	H05V-K SW	-X01	B03 -S1	-00 52				
Q05	0 1.0MW2	H05V-K SW	-X01	B04 -S1	-00 64				
Q05	0 1.0MW2	H05V-K SW	-X01	B13 -S42	-00 11				
Q05	0 1.0MW2	H05V-K SW	-X01	B14 -S42	-00 14				
Q05	0 1.0MW2	H05V-K SW	-X01	B15 -S25	-00 11				
Q05	0 1.0MW2	H05V-K SW	-X01	B16 -S25	-00 14				
Q05	0 1.0MW2	H05V-K SW	-X01	C05 -S1	-001 31				
Q05	0 1.0MW2	H05V-K SW	-X01	C06 -S1	-001 32				
Q05	0 1.0MW2	H05V-K SW	-X01	D07 -S1	-001 33				
Q05	0 1.0MW2	H05V-K SW	-X01	D08 -S1	-001 34				
R01	0 1.0MW2	H05V-K SW	-S1	-00 239 -S41	-00 12				
R01	0 1.0MW2	H05V-K SW	-X01	A10 -S41	-00 11				
R01	0 1.0MW2	H05V-K SW	-X01	A11 -S1	-00 230				
V01	0 1.0MW2	H05V-K SW	-X01	A07 -S24	-00 11				

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FACT. -REV.
Approval
Alteration

15.12.2006
30.10.2005
30.06.2005
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US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T81

Orig:

50.3023.01-A4-741-407
50.3023.01
D009781.01.604-3-AHA

50.3023.01
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Sheet54
56Sh.

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D00978101

CROSS CONNECTION

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

03	AS BUILT	5.12.2005	AD	Date	05.06.2005	US STEEL KOSICE/SLOVAKIA	50.3023.01	ISS. FOR	ISS. BY	50.3023.01-A4-741-107	V=L04	56Sh.
02	FACT.-REV.	30.10.2005	BL	Drawn	Hänicke	50.3023.01	SUBSTATION T81	ISS. FOR	ISS. BY	50.3023.01-A4-741-107	V=L04	56Sh.
01	Approval	30.09.2005	Hoe	Check	Grohmann	50.3023.01	SUBSTATION T81	ISS. FOR	ISS. BY	50.3023.01-A4-741-107	V=L04	56Sh.
NO.	Alteration	Date	Name	Std.	Orig.	Iss. for	Iss. by	Typ: 03	NOTOR FEEDER	D009781.01.604-3_AHA	56Sh.	56Sh.

07.12.2008
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TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER PIN

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

A				B				C				D				+
1	-00	-S22	11	-00	-S1	44	44	-00	-S1	243	243	-001	-S1	14	14	+
2	-00	-S23	12	-00	-S1	51	51	-00	-F12	C2	C2	-001	-S1	21	21	0
3	-00	-S1	213	-00	-S1	52	52	-00	-S1			-001	-S1	22	22	3
4	-00	-F11	C2	-00	-S1	64	64	-00	-S1			-001	-S1	24	24	4
5	-00	-S6	11	-00	-S1	71	71	-001	-S1	31	31	-001	-S1			5
6	-00	-S43	12	-00	-S1	72	72	-001	-S1	32	32	-001	-S1			6
7	-00	-S24	11	-00	-S1	83	83	-001	-S1			-001	-S1	33	33	7
8	-00	-S24	12	-00	-S1	84	84	-001	-S1			-001	-S1	34	34	8
9	-00	-S24	14	-00	-S1	91	91	-00	-S1	103	103	-00	-S1			9
10	-00	-S41	11	-00	-S1	92	92	-00	-S1	104	104	-00	-S1			10
11	-00	-S1	230	-001	-S1	41	41	-00	-S1	111	111	-001	-S1	43	43	11
12	-00	-S1	11	-001	-S1	42	42	-00	-S1	112	112	-001	-S1	44	44	12
13	-00	-S1	12	-00	-S42	11	11	-00	-S1			-001	-S1			13
14	-00	-S1	24	-00	-S42	14	14	-00	-S1			-001	-S1			14
15	-00	-S1	31	-00	-S25	11	11	-001	-S1	11	11	-001	-S1			15
16	-00	-S1	32	-00	-S25	14	14	-001	-S1	12	12	-001	-S1			16

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03 AS BUILT 5.12.2005 AD Date 06.06.2005 US STEEL KOSTICE/SLOVAKIA
02 FACT -REV. 30.10.2005 BL Drawn Hranice 50.3023.01
01 Approval 30.06.2005 Hra Check Grohmann SUBSTATION T81



PLUG DIAGRAM
CIRCUIT-BREAKER
PANEL

50.3023.01-A4-741407

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Sheet 56
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Typ: 03
MOTOR FEEDER

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