AREVA Sachsenwerk 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

MOTOR FEEDER

CIRCUIT DIAGRAM

A =L04 / A01

D009781.02. 604-3.AHA

50.3023.01.A3.741.226
COVER SHEET

PANEL
04

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

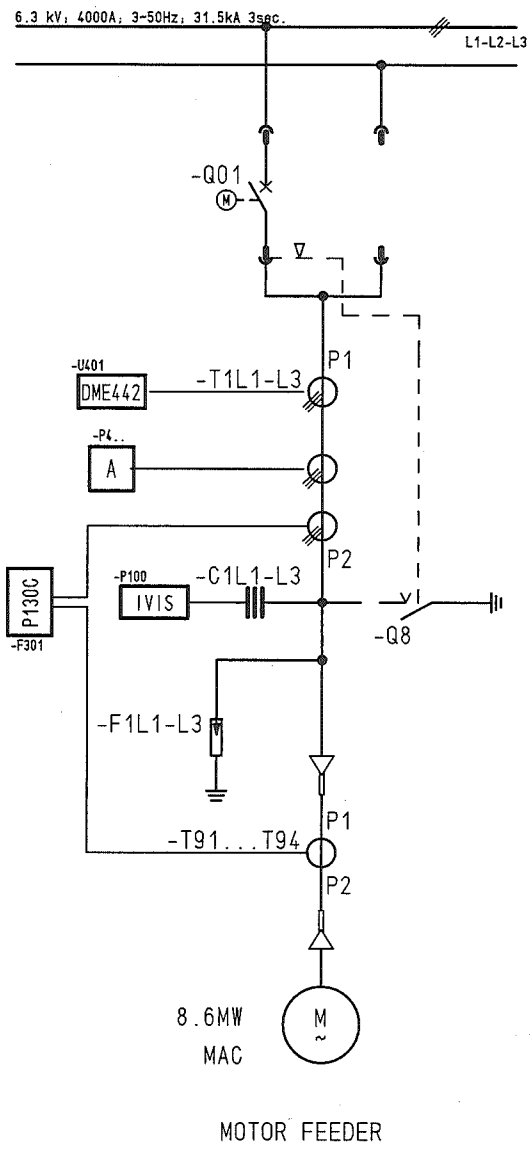
Nr.	Alteration	Date	Name
03	AS BUILT	05.12.2006	AD
02	Fact.-Rev.	09.11.2005	AD
01	Approval	20.09.2005	AD

22.12.2006 HJ0115MD
D009781102 =L04 A01
FELD 04 ADAM

INSTRU. AND CONTROL					
FUNCTION	LOCAL	LOCAL CONTROL	REMOTE CONTROL		REMARKS
CONTROL	-Q8 -Q01,-Q02		-Q01,-Q02		
STATUS SIGNAL	-Q01,-Q02,-Q8		-Q01,-Q02,-Q8		
MEASUREMENT	I (L1-L3)		I (L2), U(L1-L2) P (P2), Q(Q2)		
PROTECTION ANSI	MiCOM P130C 27,32,46,48,49,50P,50N,50BF,51,51N,59,59N,66,67,67N,79,810 81U,86				
METERING					

TECHNICAL SWITCH DATA						
DESIGN	MANUFACT	TYP	RATED CURRENT	BREAK. CURRENT		REMARKS
-Q01	AREVA	ECA 12-50-12-21	1250A	50kA		
-Q8	AREVA	KGE 80/12-2				

TECHNICAL TRANSFORMER DATA					
DESIGN	MANUFACT	TYP	RATIO	VDE	REMARKS
-T1L1	AEG	CT12	1000/1/1/1A	C1: cl. 0.2FS5 15VA	
-T1L2	AEG	CT12	1000/1/1/1A	C2: cl. 1FS5 15VA	
-T1L3	AEG	CT12	1000/1/1/1A	C3: cl. 10P10 15VA	
-T91	AEG	RKT 250/160 Gr.3	60/1A	C1: cl. 3FS5 1.2VA	
-T92	AEG	RKT 250/160 Gr.3	60/1A	C1: cl. 3FS5 1.2VA	
-T93	AEG	RKT 250/160 Gr.3	60/1A	C1: cl. 3FS5 1.2VA	
-T94	AEG	RKT 250/160 Gr.3	60/1A	C1: cl. 3FS5 1.2VA	
-F1L1	AREVA	HE09			OVERVOLTAGE ARRESTOR
-F1L2	AREVA	HE09			
-F1L3	AREVA	HE09			
-C1L1	AREVA	IVIS			CAP. TAPPING
-C1L2	AREVA	IVIS			
-C1L3	AREVA	IVIS			



MOTOR FEEDER

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FELD 04
D0978102
22.12.2006 HJ0115ND
L04
A02
ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CIRCUIT DIAGRAM
PANEL 04

50.3023.01.A3.741.226 A =L04
/ A02
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 2
98Sh.

CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS			DOCUMENT IDENTIFICATION SORT	MATCHING	ITEM NO.	SHEET	DESIGN
50.3023.01.A3.741	D009781.02.604-3.AHA	01	02	03	A	=L04	A01	1	COVER SHEET PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	A	=L04	A02	2	CIRCUIT DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	A	=L04	B01	3	Inhaltsverzeichnis PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	A	=L04	B02	4	Inhaltsverzeichnis PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	A	=L04	B03	5	Inhaltsverzeichnis PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	A	=L04	B04	6	Inhaltsverzeichnis PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	D01	7	CIRCUIT DIAGRAM PANEL AC-DISTRIBUTION 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	G00	8	CIRCUIT DIAGRAM PANEL CBF 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	G01	9	CIRCUIT DIAGRAM PANEL DC DISTR. 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	G02	10	CIRCUIT DIAGRAM PANEL RING CIRCUIT 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	L01	11	CIRCUIT DIAGRAM PANEL CIRCUIT-BREAKER MOTOR DRIVE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	M01	12	CIRCUIT DIAGRAM PANEL CONTROL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	M02	13	CIRCUIT DIAGRAM PANEL CONTROL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	M03	14	CIRCUIT DIAGRAM PANEL CONTROL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	M04	15	CIRCUIT DIAGRAM PANEL CONTROL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	M05	16	CIRCUIT DIAGRAM PANEL CONTROL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	N01	17	CIRCUIT DIAGRAM PANEL ARC DETECTOR 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	N02	18	CIRCUIT DIAGRAM PANEL ARC DETECTOR 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	P01	19	CIRCUIT DIAGRAM PANEL INTERLOCK 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	P02	20	CIRCUIT DIAGRAM PANEL INTERLOCK 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q01	21	CIRCUIT DIAGRAM PANEL POSITION INDICA. 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q02	22	CIRCUIT DIAGRAM PANEL INTERFACE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q03	23	CIRCUIT DIAGRAM PANEL INTERFACE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q04	24	CIRCUIT DIAGRAM PANEL INTERFACE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q05	25	CIRCUIT DIAGRAM PANEL INTERFACE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q06	26	CIRCUIT DIAGRAM PANEL INTERFACE 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q07	27	CIRCUIT DIAGRAM PANEL SPARE CONTACTS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Q08	28	CIRCUIT DIAGRAM PANEL SPARE CONTACTS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	R01	29	CIRCUIT DIAGRAM PANEL SIGNALLING 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	S01	30	CIRCUIT DIAGRAM PANEL CURR.TRANSF. 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	S02	31	CIRCUIT DIAGRAM PANEL CURR.TRANSF. 04

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FELD 04
D0978102
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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Inhaltsverzeichnis
PANEL 04

50.3023.01.A3.741 .226 A =L04 / B01
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 3 98Sh.

CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS			DOCUMENT IDENTIFICATION			SHEET	DESIGN	
					SORT	MATCHING	ITEM NO.			
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	T01	32	CIRCUIT DIAGRAM PANEL	VOLTAGE TRANSF. 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	T02	33	CIRCUIT DIAGRAM PANEL	IVIS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	V01	34	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	V02	35	CIRCUIT DIAGRAM PANEL	SPARE CONTACTS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	X01	36	CIRCUIT DIAGRAM PANEL	AX PE-BUS 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1A1	37	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1A10	38	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1A11	39	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1F1	40	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1F10	41	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1F11	42	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1F2	43	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1H1	44	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1K1	45	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1K2	46	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1P1	47	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1S1	48	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z1U1	49	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2B1	50	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2C1	51	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2P1	52	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2Q1	53	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2S1	54	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2T1	55	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z2Y1	56	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z3Q1	57	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z3Q2	58	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z3S1	59	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	S	=L04	Z3Y1	60	LIST OF EQUIPMENT PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K01	61	TERMINAL DIAGRAM PANEL	04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K02	62	TERMINAL DIAGRAM PANEL	04

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FELD 04 D09781102 22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

Inhaltsverzeichnis
PANEL
04

50.3023.01.A3.741 .226 A =L04 / B02

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 4 98Sh.

CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS			DOCUMENT IDENTIFICATION SORT	MATCHING	ITEM NO.	SHEET	DESIGN
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K03	63	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K10	64	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K11	65	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K12	66	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K30	67	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K40	68	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K50	69	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K51	70	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K60	71	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K80	72	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K81	73	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K82	74	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	K90	75	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	KPE	76	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	Q10	77	CROSS CONNECT. LIST PANEL RELAY BOX 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	Q11	78	CROSS CONNECT. LIST PANEL RELAY BOX 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	Q12	79	CROSS CONNECT. LIST PANEL RELAY BOX 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	S01	80	PLUG DIAGRAM PANEL CIRCUIT-BREAKER 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	S40	81	PLUG DIAGRAM PANEL NIEDERSPG.-SCHR.A- NIEDERSPG.-SCHR.B 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.R	S41	82	PLUG DIAGRAM PANEL NIEDERSPG.-SCHR.A- NIEDERSPG.-SCHR.B 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1A.T	Q15	83	CROSS CONNECT. LIST PANEL RELAY BOX 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K01	84	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K10	85	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K30	86	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K40	87	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K80	88	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	K90	89	TERMINAL DIAGRAM PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	Q10	90	CROSS CONNECT. LIST PANEL RELAY BOX 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S1B.R	S01	91	PLUG DIAGRAM PANEL CIRCUIT-BREAKER 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S2A	Q20	92	CROSS CONNECT. LIST PANEL PANEL 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3A	Q30	93	CROSS CONNECT. LIST PANEL SWITCHING TRUCK 04

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FELD 04
D0978102
22.12.2006

NO.	Alteration	Date	Name	Std.
03	AS BUILT	05.12.2006	AD	
02	Fact.-Rev.	09.11.2005	AD	
01	Approval	20.09.2005	AD	

Date 13.07.2005
Drawn Bräunert
Check Adam

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

Orig.: Iss.for Iss.by:

AREVA

Inhaltsverzeichnis
PANEL
04

50.3023.01.A3.741 .226 A =L04
/ B03
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 5
98Sh.

CLIENT DOCUMENT NUMBER	RELEASE BY DOCUMENT NUMBER	VERSION STATUS			DOCUMENT IDENTIFICATION SORT	MATCHING	ITEM NO.	SHEET	DESIGN	
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3A	Q31	94	CROSS CONNECT. LIST PANEL	SWITCHING TRUCK 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3A	Q32	95	CROSS CONNECT. LIST PANEL	SWITCHING TRUCK 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3A	Q33	96	CROSS CONNECT. LIST PANEL	SWITCHING TRUCK 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3A	S01	97	PLUG DIAGRAM PANEL	CIRCUIT-BREAKER 04
50.3023.01.A3.741 .226	D009781.02.604-3.AHA	01	02	03	V	=L04 +S3B	S01	98	PLUG DIAGRAM PANEL	CIRCUIT-BREAKER 04

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FELD 04
D0978102
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005			
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert			
01	Approval	20.09.2005	AD	Check	Adam			

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

AREVA

Inhaltsverzeichnis
PANEL
04

50.3023.01.A3.741 .226 A =L04 / B04
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 6 98Sh.

AC-DISTRIBUTION

C.B. OPEN
Q01+Q02

=L03
+S1A.R

+S1A.R

=L05
+S1A.R

-X0 2 -X0 1 AC230V.L1 -X0 2 -X0 1

-X0 4 -X0 3 N -X0 4 -X0 3

-XPE PE PE -XPE PE -XPE PE

+S3A -X01 B05

-Q01

/Z3Q1.1 -S1 71

/Z3Q2.1 72

-X01 B06

+S1B.R

+S3B -X02 B05

S1 71
72

-X02 B06

RELAY BOX
B

RELAY BOX
A

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FELD 04
D0978102
22.12.2006 HJ0115ND
J04
D01
ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	CIRCUIT DIAGRAM	50.3023.01.A3.741.226	S	=L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		AC-DISTRIBUTION			/ D01
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09 MOTOR FEEDER	D009781.02.604-3.AHA	Sheet 7
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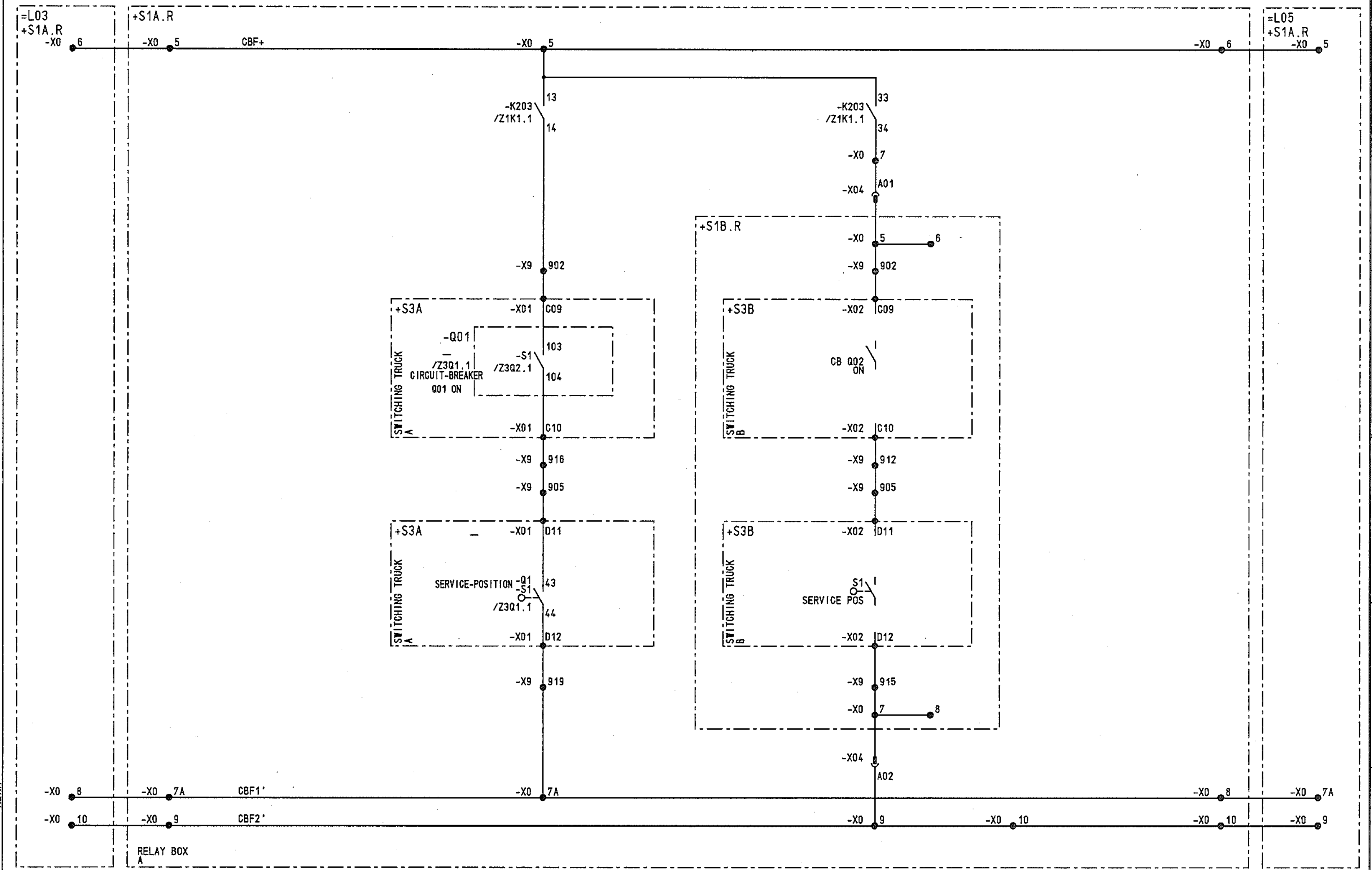

Copyright as per DIN 34 to be observed!

FELD 04
D0978102
22.12.2006 HJ0115ND =L04 G00 ADAM

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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		CBF		/ 600
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09	Sheet 8
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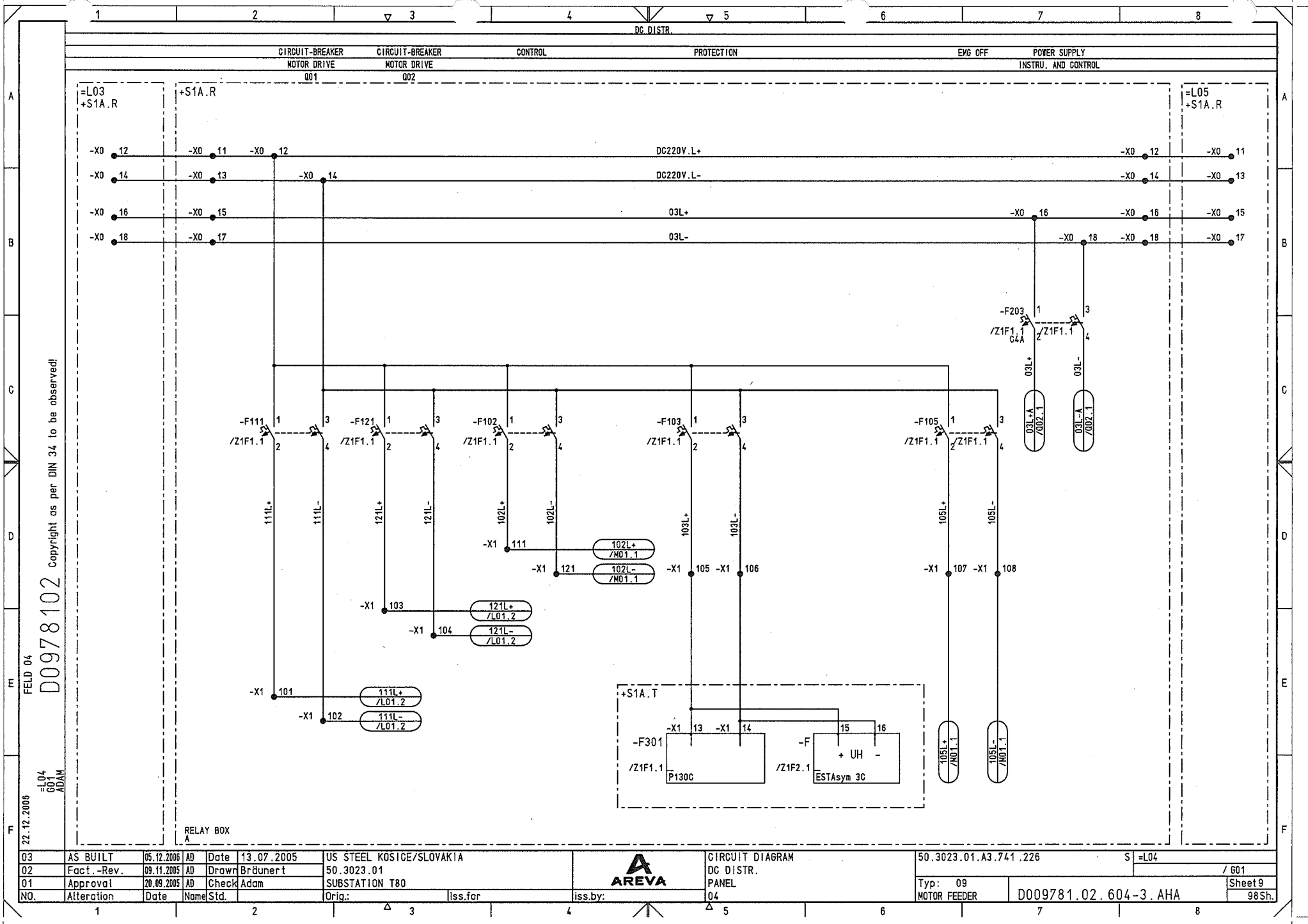

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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

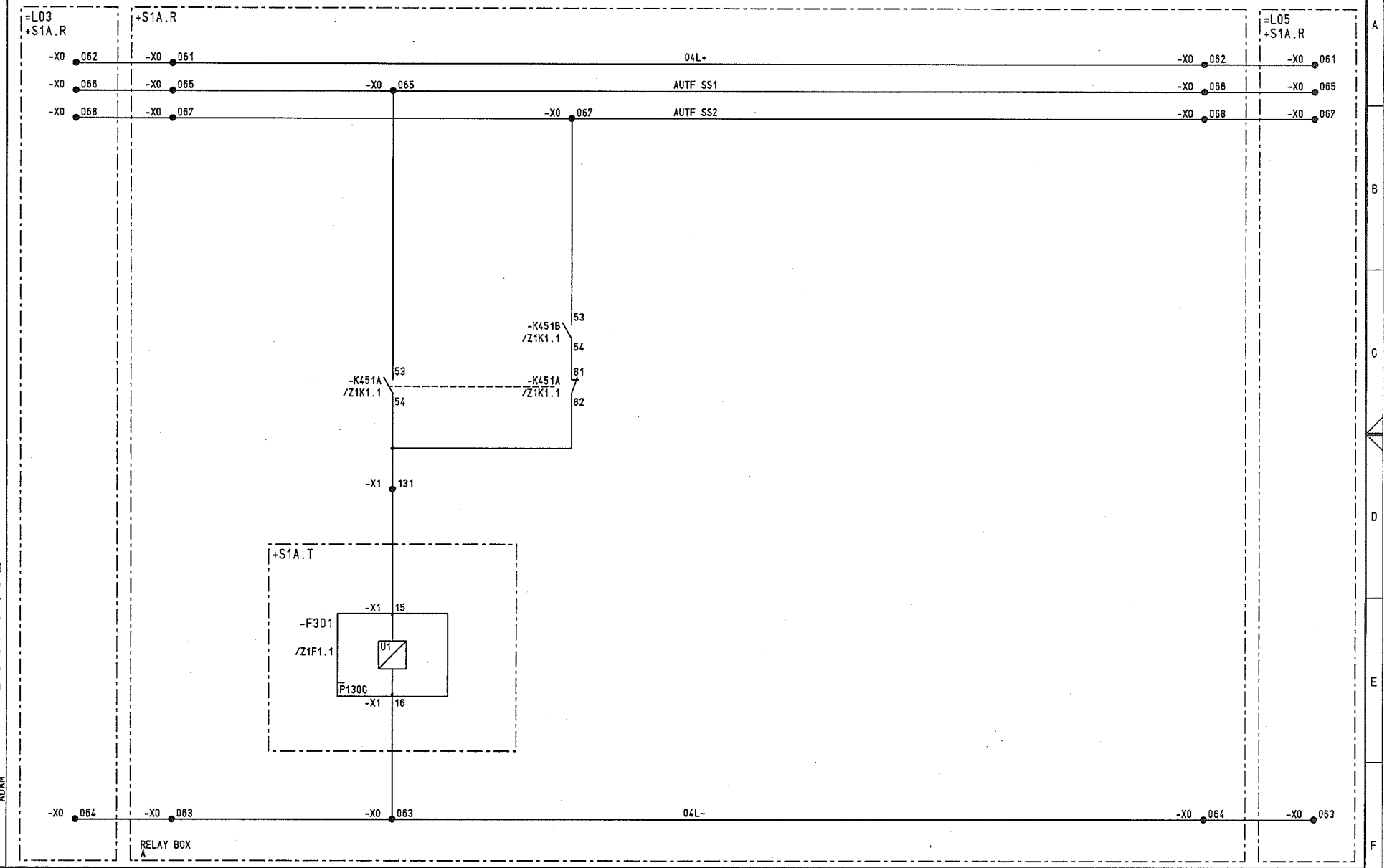
CIRCUIT DIAGRAM
DC DISTR.
PANEL
04

50.3023.01.A3.741.226 S =L04 / G01

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 9 98Sh.



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FELD 04

D0978102

22.12.2006 HJ0115MD L04 G02 ADAM

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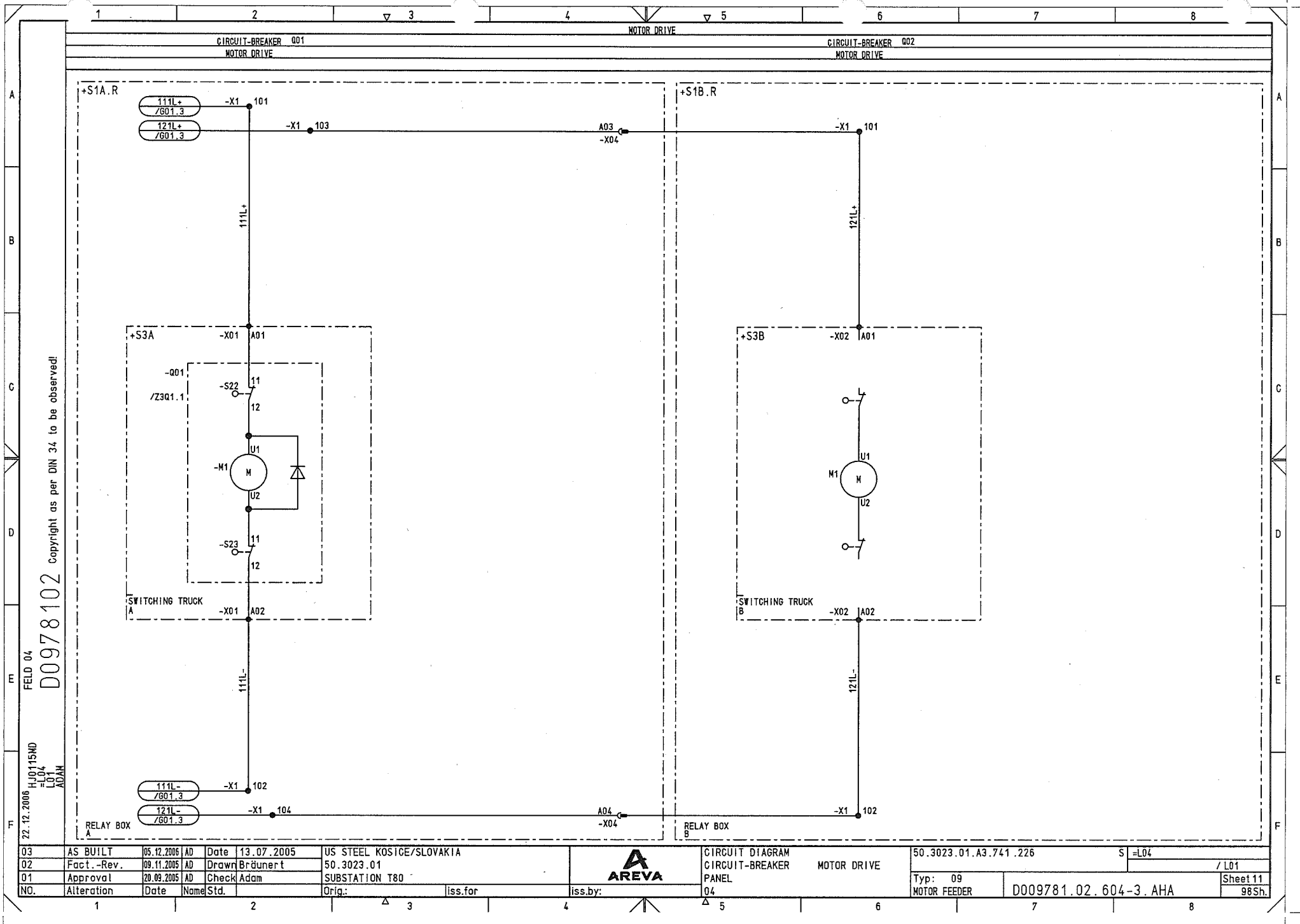
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		RING CIRCUIT			/ G02
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09	D009781.02.604-3.AHA	Sheet 10
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	04	MOTOR FEEDER	98Sh.



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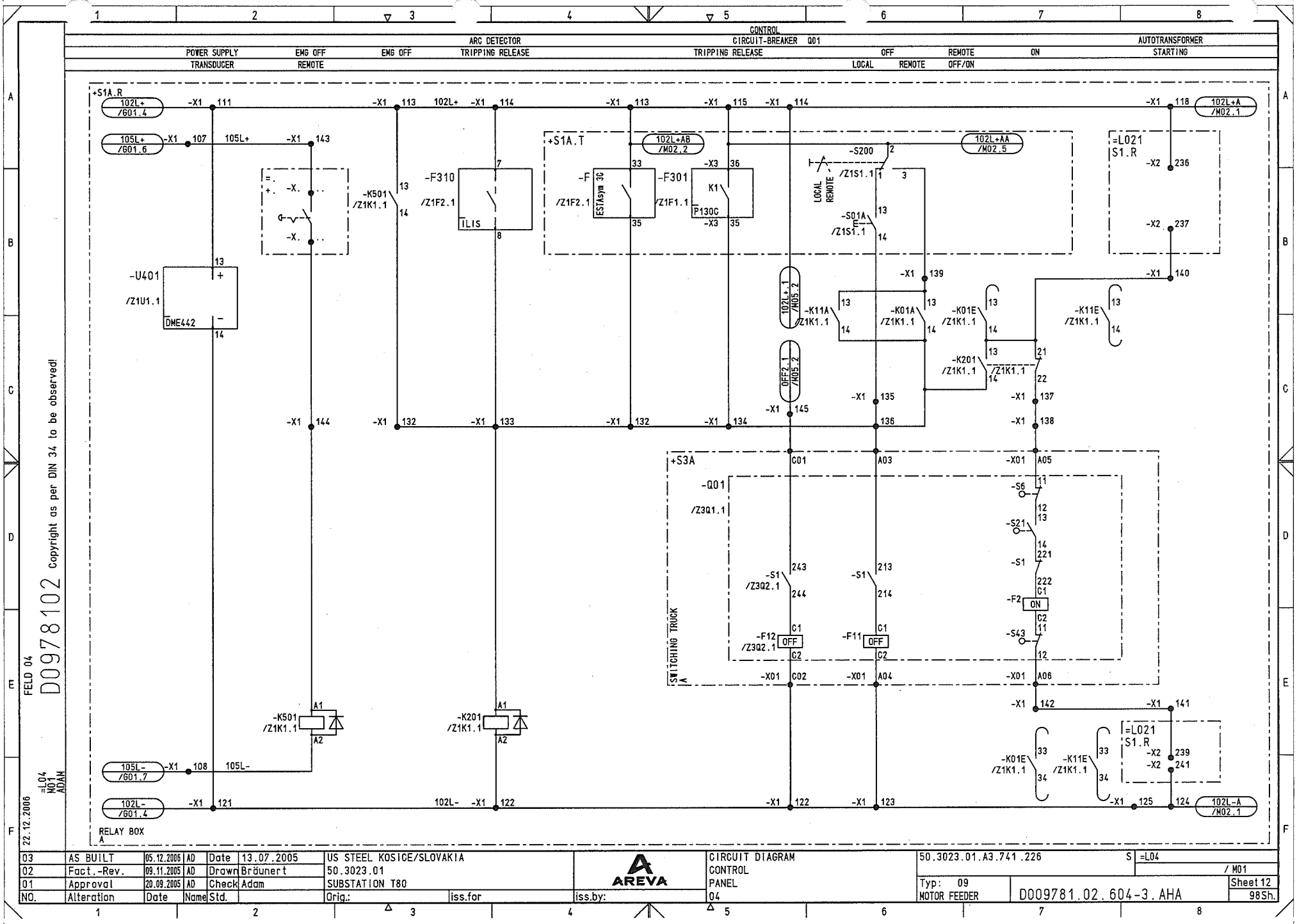
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		CIRCUIT-BREAKER MOTOR DRIVE				/ L01	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09	D009781.02.604-3.AHA			Sheet 11
NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:	04	MOTOR FEEDER			98Sh.



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FELD 04
D009781 02
=L04 M01 ADAM
22.12.2006

NO.	Alteration	Date	Name	Std.	Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert		
01	Approval	20.09.2005	AD	Check	Adam		

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

AREVA

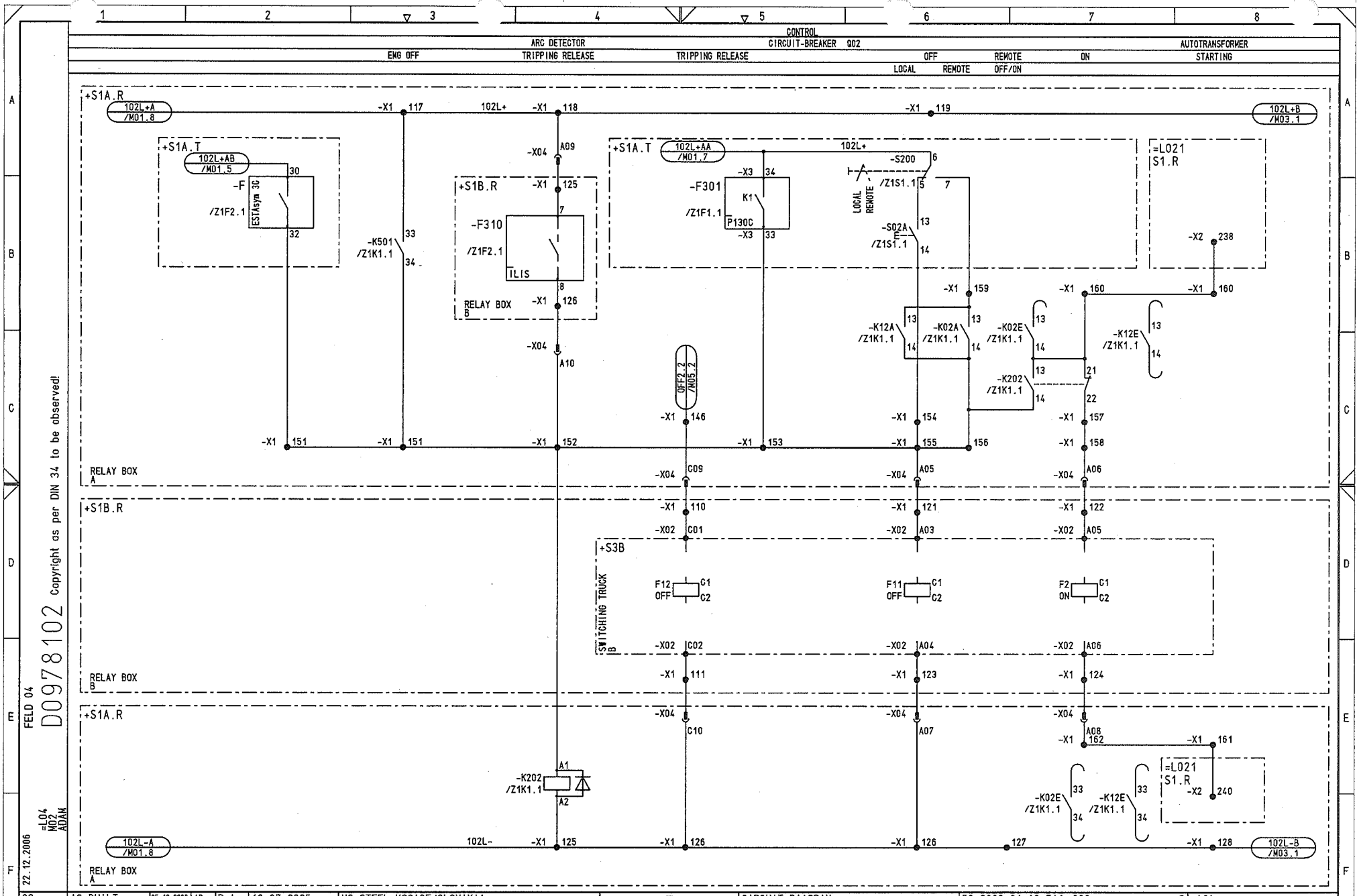
CIRCUIT DIAGRAM
CONTROL
PANEL
04

50.3023.01.A3.741.226 S =L04 / M01

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 12
98Sh.



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FELD 04
D009781 02
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M02
ADAM
22.12.2006

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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CIRCUIT DIAGRAM
CONTROL
PANEL
04

50.3023.01.A3.741.226 S =L04 / M02

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 13
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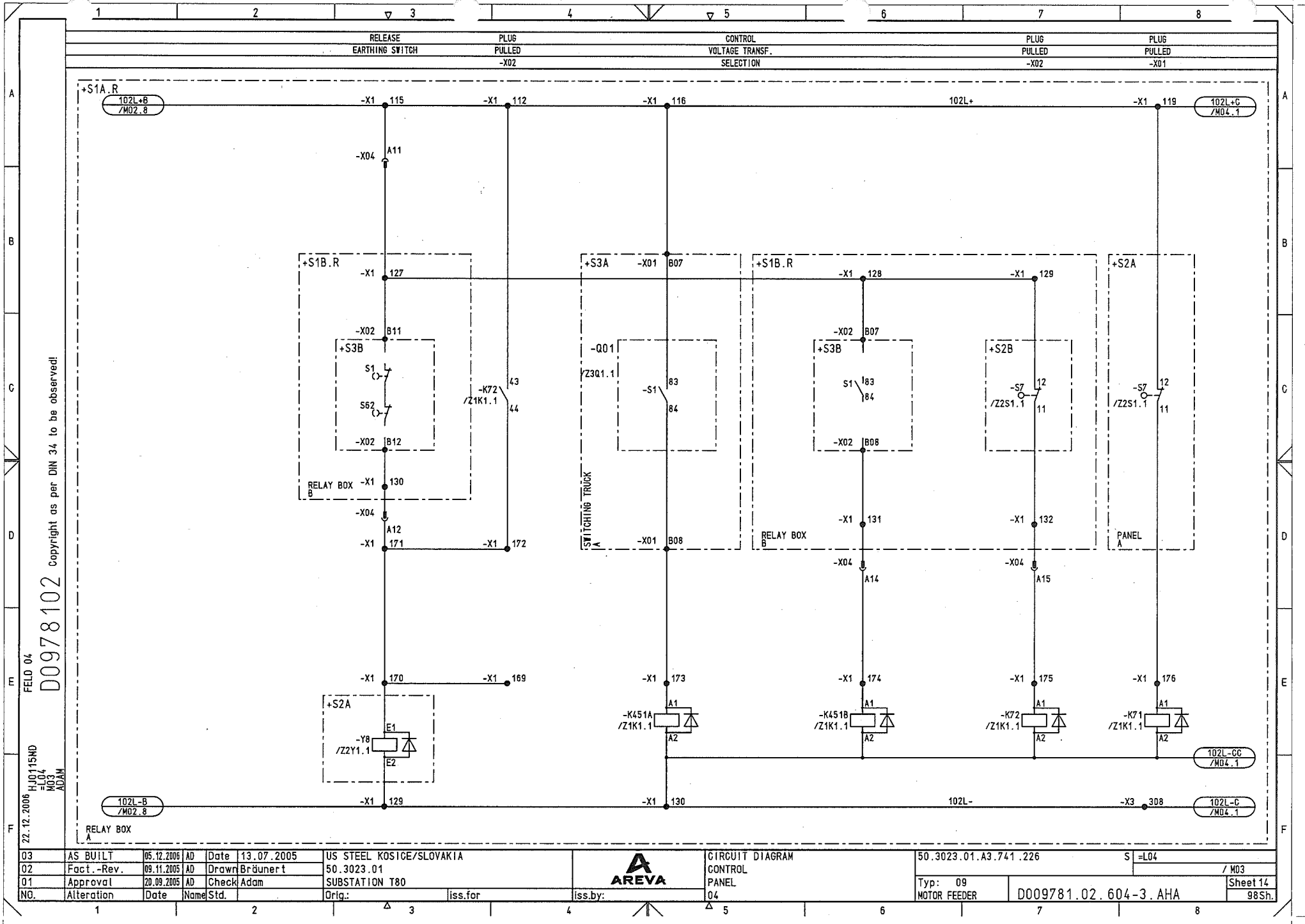

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FELD 04
D0978102
22.12.2006 HJ0115MD =L04 M03 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

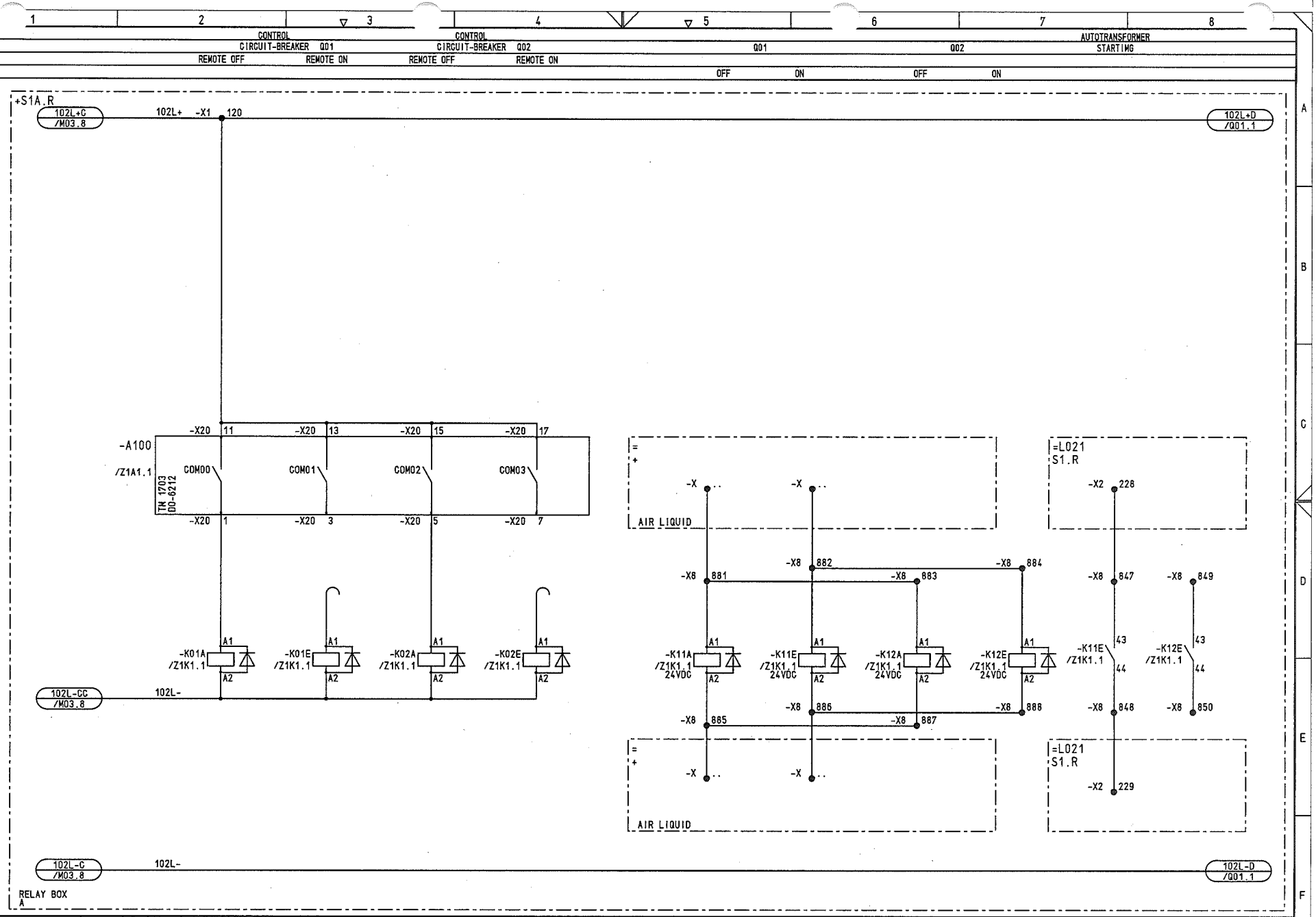
CIRCUIT DIAGRAM
CONTROL
PANEL
04

50.3023.01.A3.741.226 S =L04 / M03

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 14 98Sh.



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FELD 04
D0978102
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M04
ADAM
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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CIRCUIT DIAGRAM
CONTROL
PANEL
04

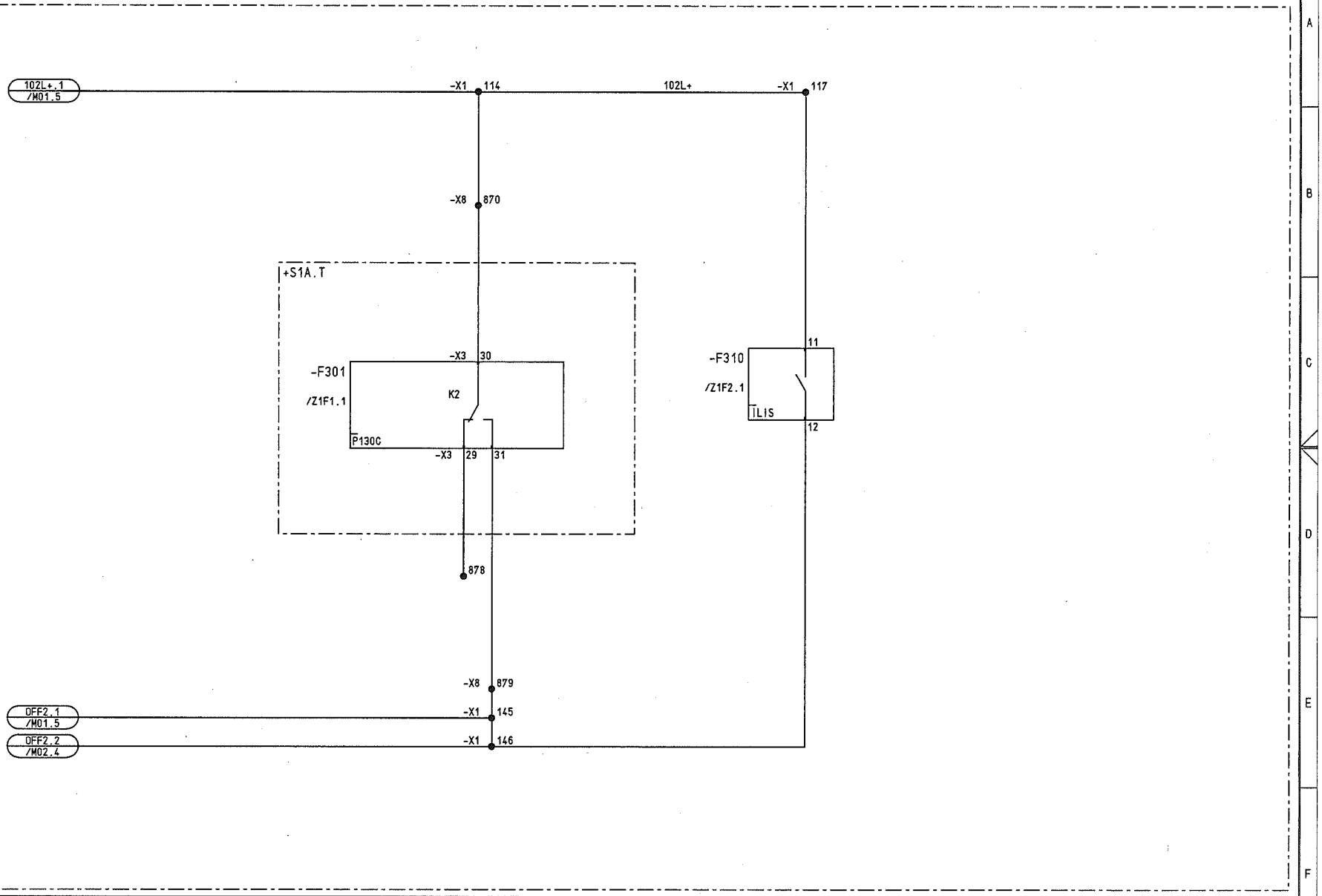
50.3023.01.A3.741.226 S =L04 / M04

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 15
98Sh.

PROT. TRIPPING RELEASE | ARC DETECTOR TRIPPING RELEASE



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FELD 04
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22.12.2006 HJ0115ND =L04 M05 A0AM

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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

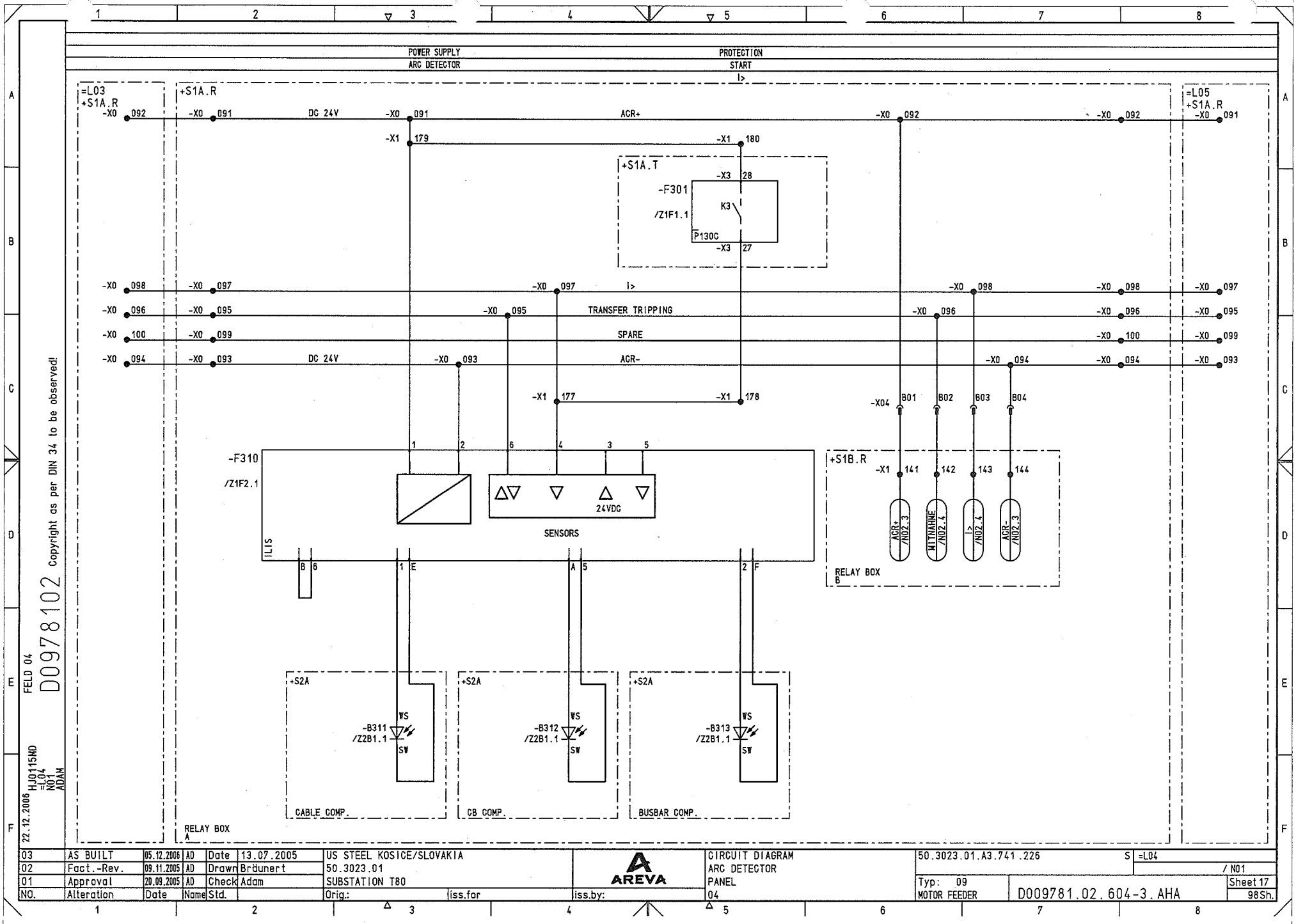
CIRCUIT DIAGRAM
CONTROL
PANEL
04

50.3023.01.A3.741.226 S =L04 / M05

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 16
98Sh.



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FELD 04
D0978102
22.12.2006 HJ0115MD =L04 N01 ADAM

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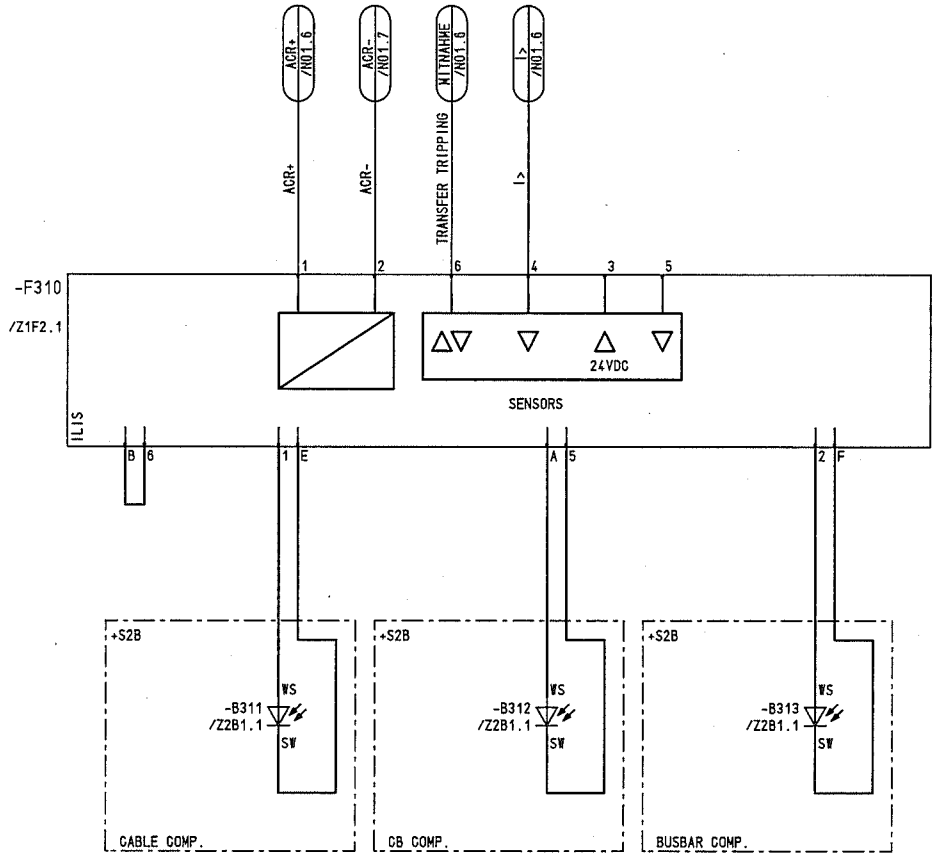
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01			Typ: 09 MOTOR FEEDER
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80			D009781.02.604-3.AHA Sheet 17 98Sh.
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	

POWER SUPPLY
ARC DETECTOR

+S1B.R



RELAY BOX
B

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FELD 04
D009781 02
HJ0115MD
=L04
NO2
ADAM
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

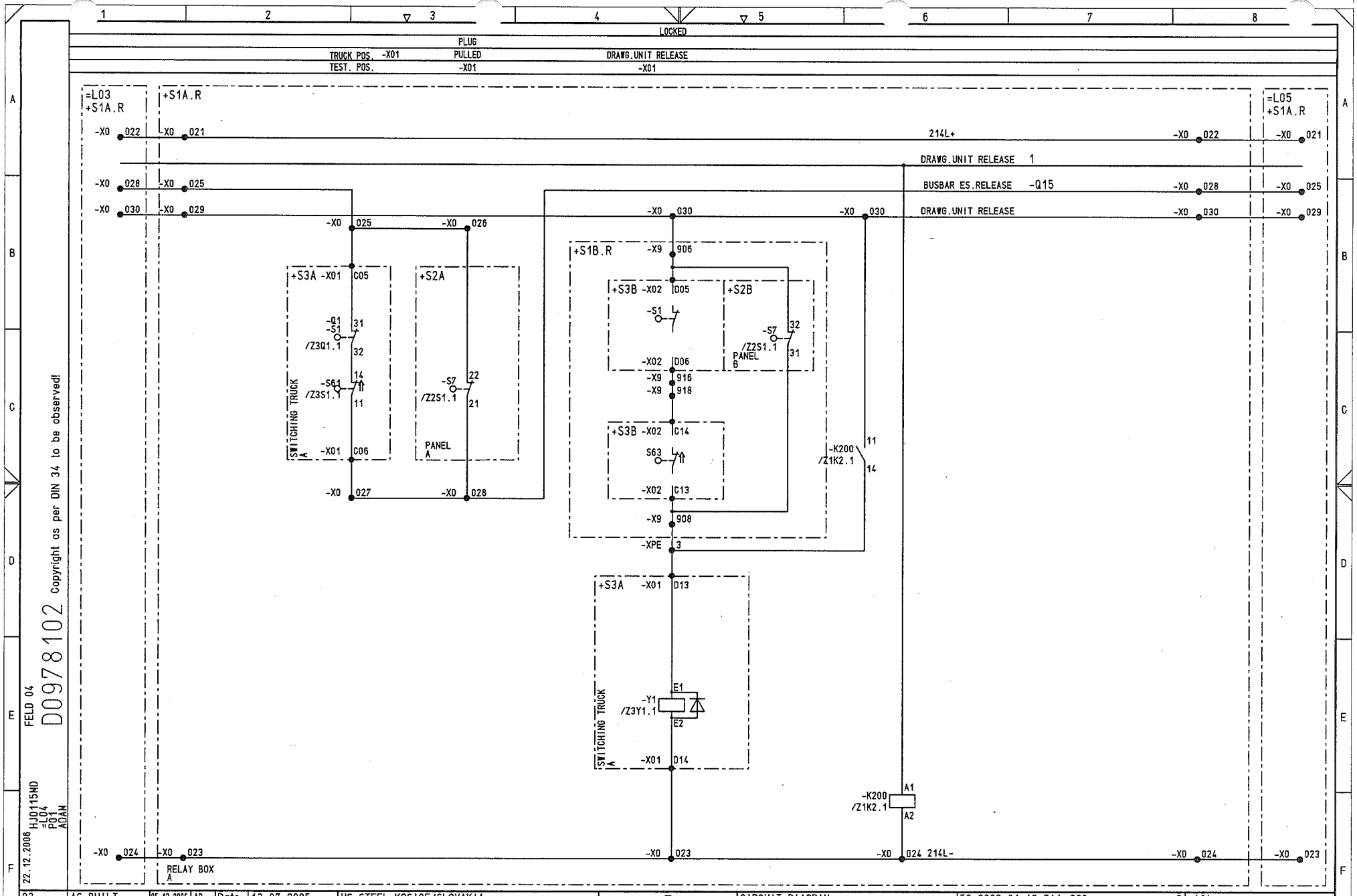
CIRCUIT DIAGRAM
ARC DETECTOR
PANEL
04

50.3023.01.A3.741.226 S =L04 / NO2

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 18
98Sh.



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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

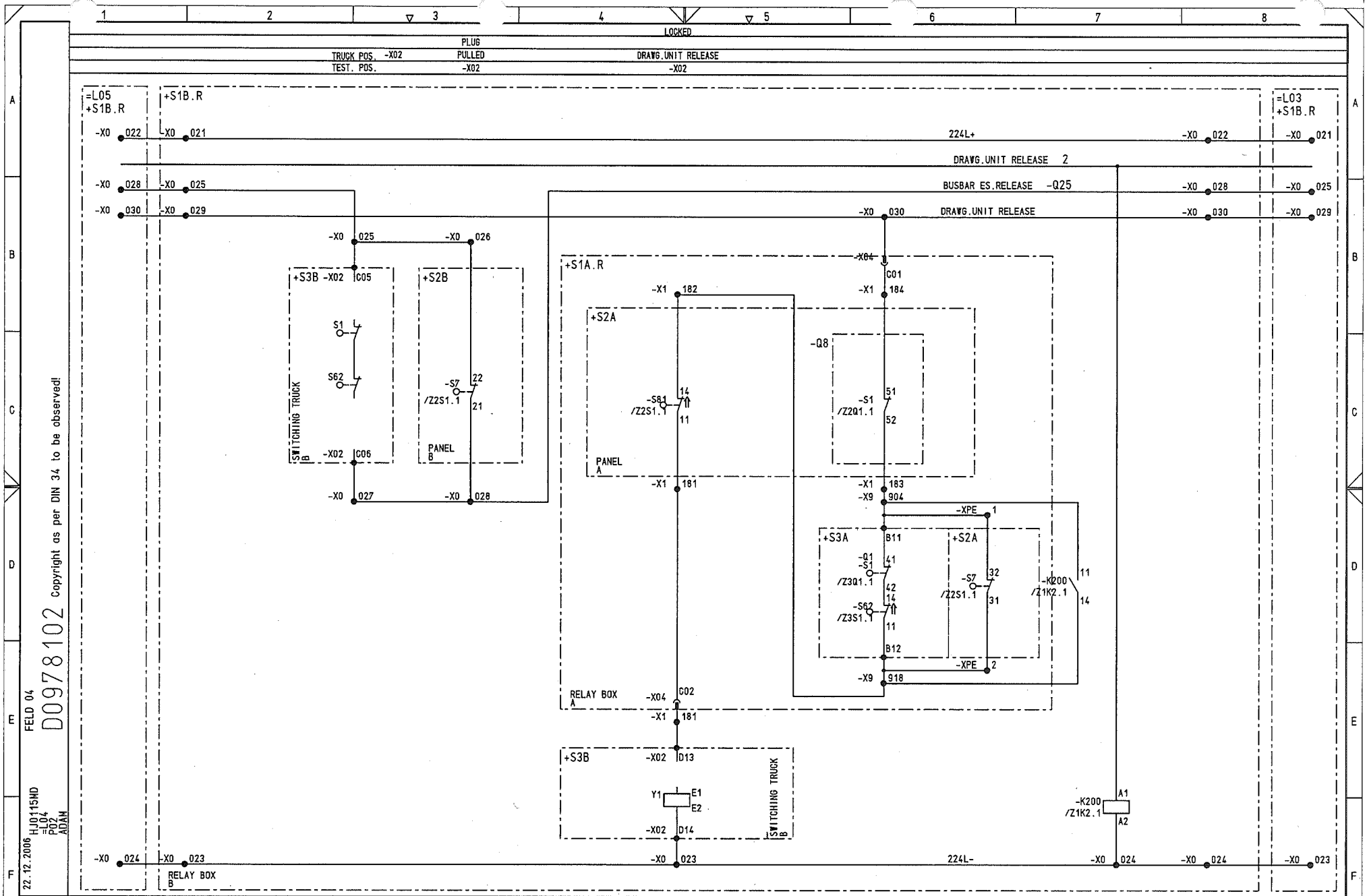
CIRCUIT DIAGRAM
INTERLOCK
PANEL
04

50.3023.01.A3.741.226 S =L04 / P01

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 19
98Sh.



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02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

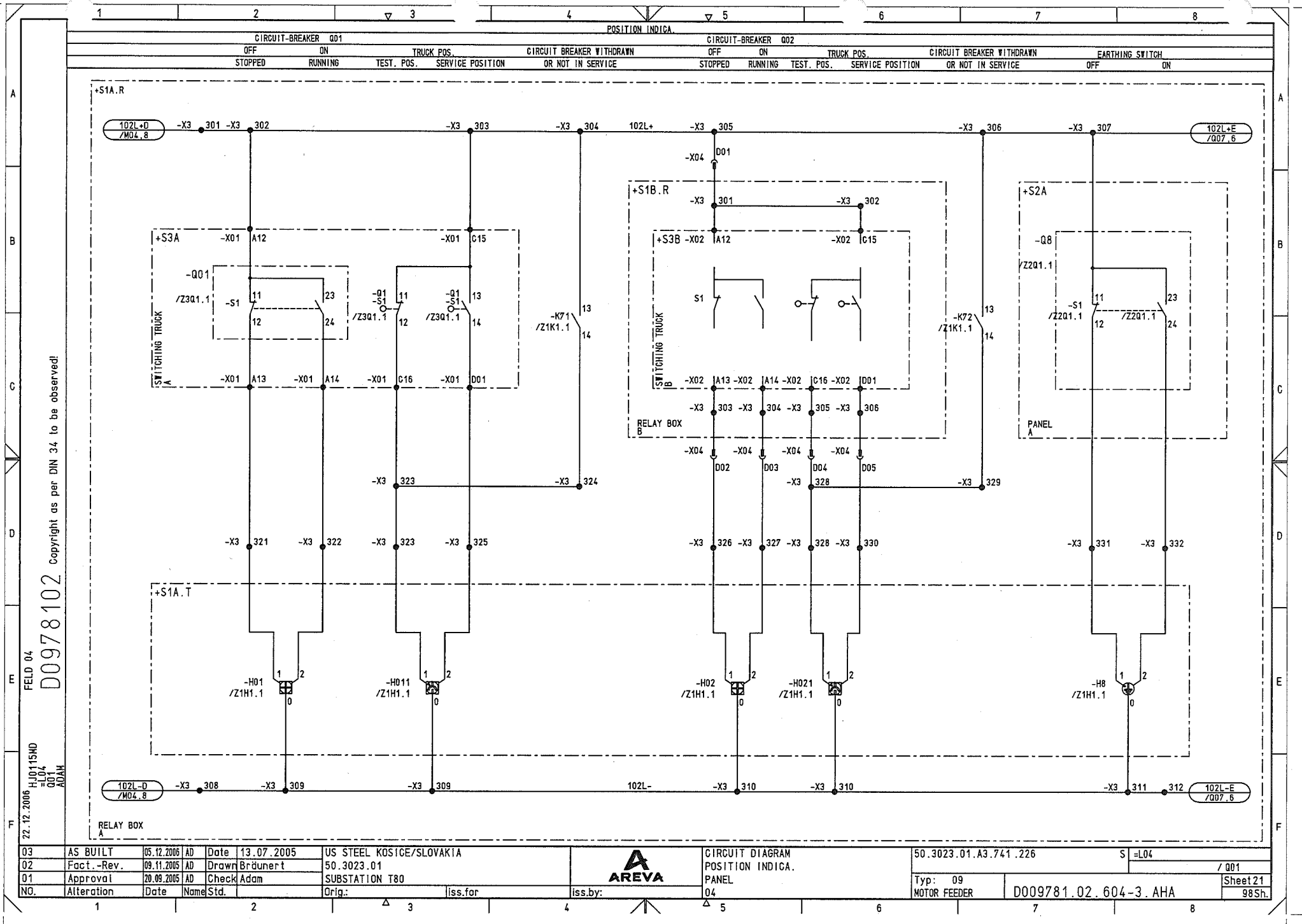
CIRCUIT DIAGRAM
INTERLOCK
PANEL
04

50.3023.01.A3.741.226 S =L04 / P02

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 20
98Sh.



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D0978102 FELD 04

22.12.2006 HJ0115ND =L04 -Q01 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
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02	Fact.-Rev.	09.11.2005	AD	Drawn	Brdunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

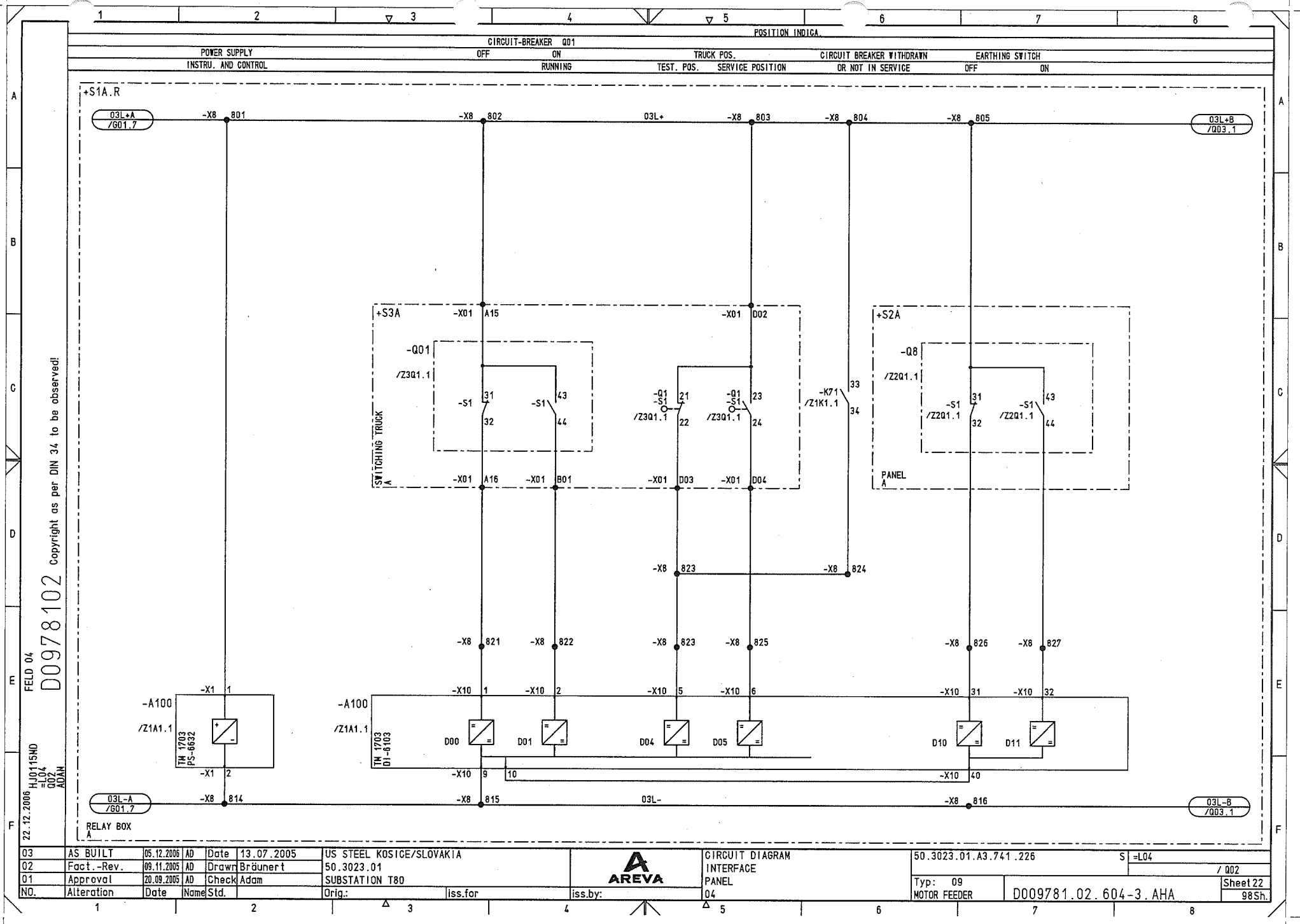
CIRCUIT DIAGRAM
POSITION INDICA.
PANEL 04

50.3023.01.A3.741.226 S =L04 / Q01

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 21 98Sh.


POSITION INDICA.
CIRCUIT-BREAKER Q01
POWER SUPPLY
INSTRU. AND CONTROL
OFF
ON
RUNNING
TRUCK POS.
TEST. POS.
SERVICE POSITION
CIRCUIT BREAKER WITHDRAWN
OR NOT IN SERVICE
EARTHING SWITCH
OFF
ON
+S1A.R
03L+A /G01.7
03L+B /QD3.1
03L+
03L-
03L-A /G01.7
03L-B /QD3.1
-X8 801
-X8 802
-X8 803
-X8 804
-X8 805
+S3A
SWITCHING TRUCK A
-X01 A15
-X01 D02
-Q01
/Z3Q1.1
-S1 31
-S1 43
32
44
-Q1 -S1 21
-Q1 -S1 23
/Z3Q1.1 22
/Z3Q1.1 24
-K71 /Z1K1.1 33
34
-X01 A16
-X01 B01
-X01 D03
-X01 D04
+S2A
PANEL A
-Q8
/Z2Q1.1
-S1 /Z2Q1.1 31
-S1 /Z2Q1.1 43
32
44
-X8 823
-X8 824
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-X8 827
-A100
/Z1A1.1
TM 1703 PS-6632
-X1 1
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-X10 1
-X10 2
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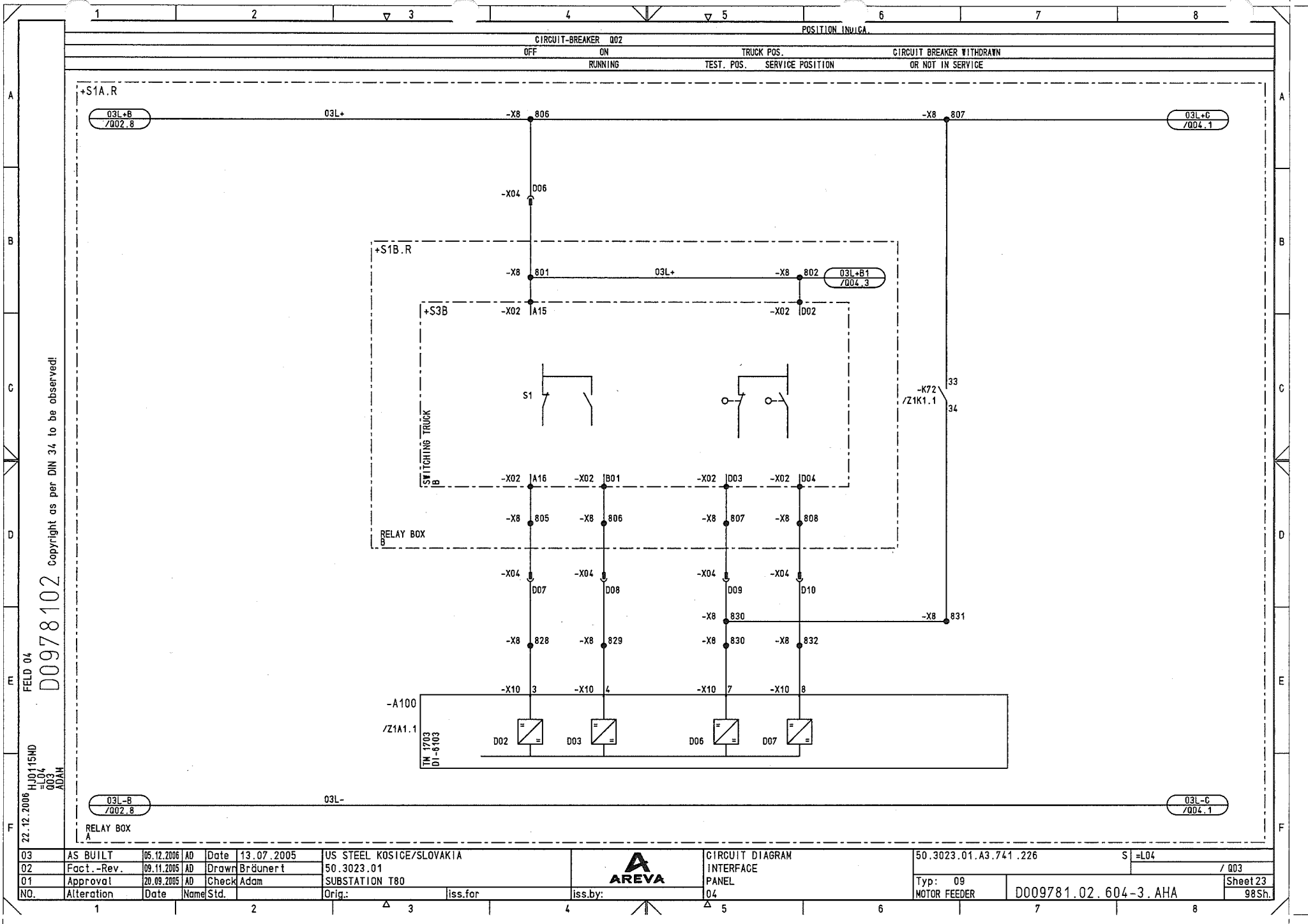
D00
D01
D04
D05
D10
D11
-X10 9
10
-X10 40
-X8 814
-X8 815
-X8 816
RELAY BOX A
FELD 04
D0978102
Copyright as per DIN 34 to be observed!
22.12.2006 HJO115ND T04 Q02 ADAN
03 AS BUILT 05.12.2006 AD
02 Fact.-Rev. 09.11.2005 AD
01 Approval 20.09.2005 AD
NO. Alteration Date Name
Date 13.07.2005
Drawn Bräunert
Check Adam
Std.
US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80
Orig.:
iss.for
iss.by:
AREVA
CIRCUIT DIAGRAM
INTERFACE
PANEL
04
50.3023.01.A3.741.226
S =L04
/ Q02
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 22
98Sh.



NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CIRCUIT DIAGRAM
INTERFACE
PANEL
04

50.3023.01.A3.741.226 S =L04 / Q03

Typ: 09
MOTOR FEEDER

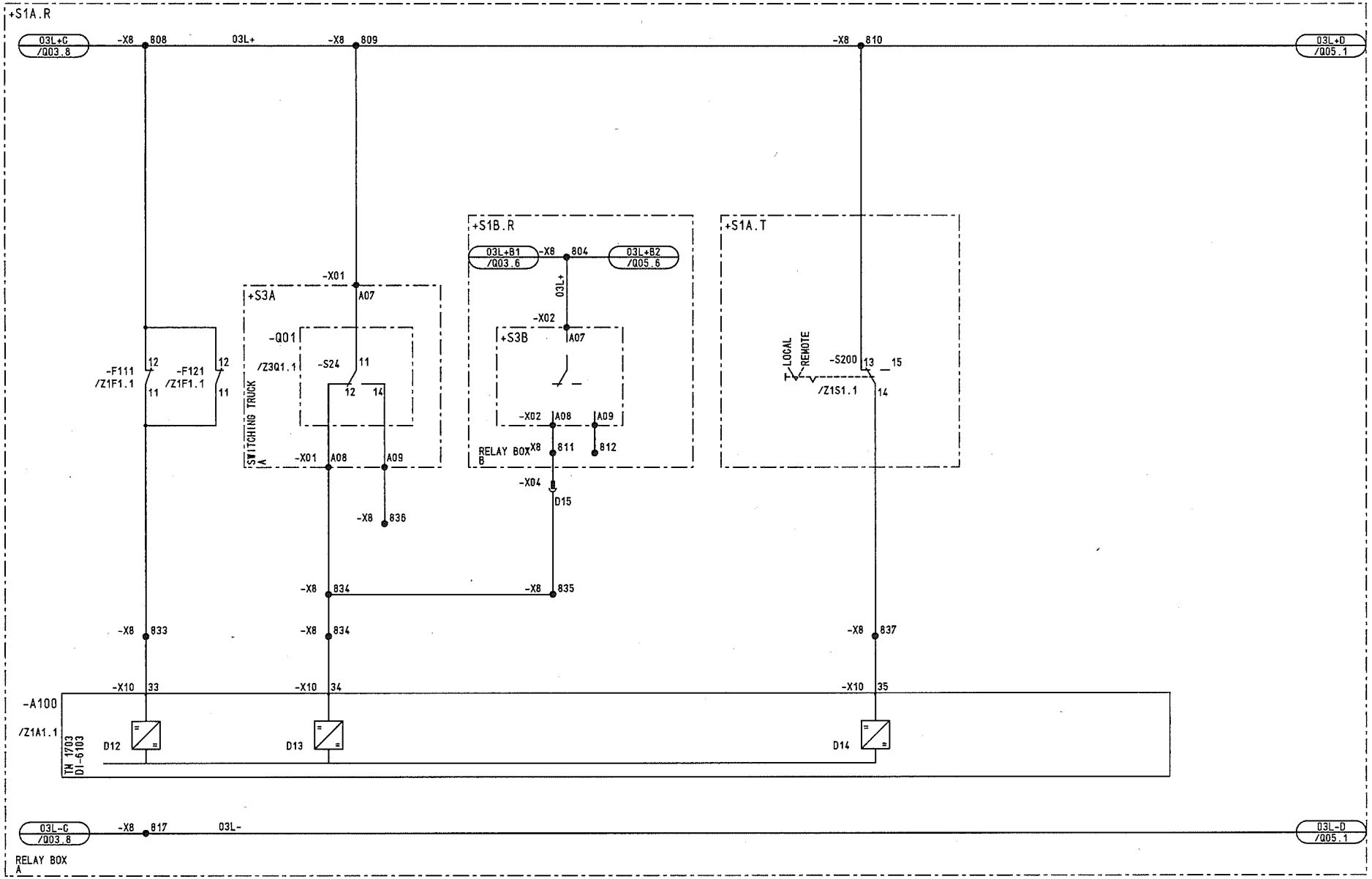
D009781.02.604-3.AHA

Sheet 23
98Sh.

M.C.B. TRIPPED
MOTOR DRIVE

SPRING-ENERGY MECH
CHARGED RELEASED

DOUBLE THROW SWITCH
LOCAL / REMOTE



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FELD 04
D0097810 2
22.12.2006 HJ0115ND =L04 Q04 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

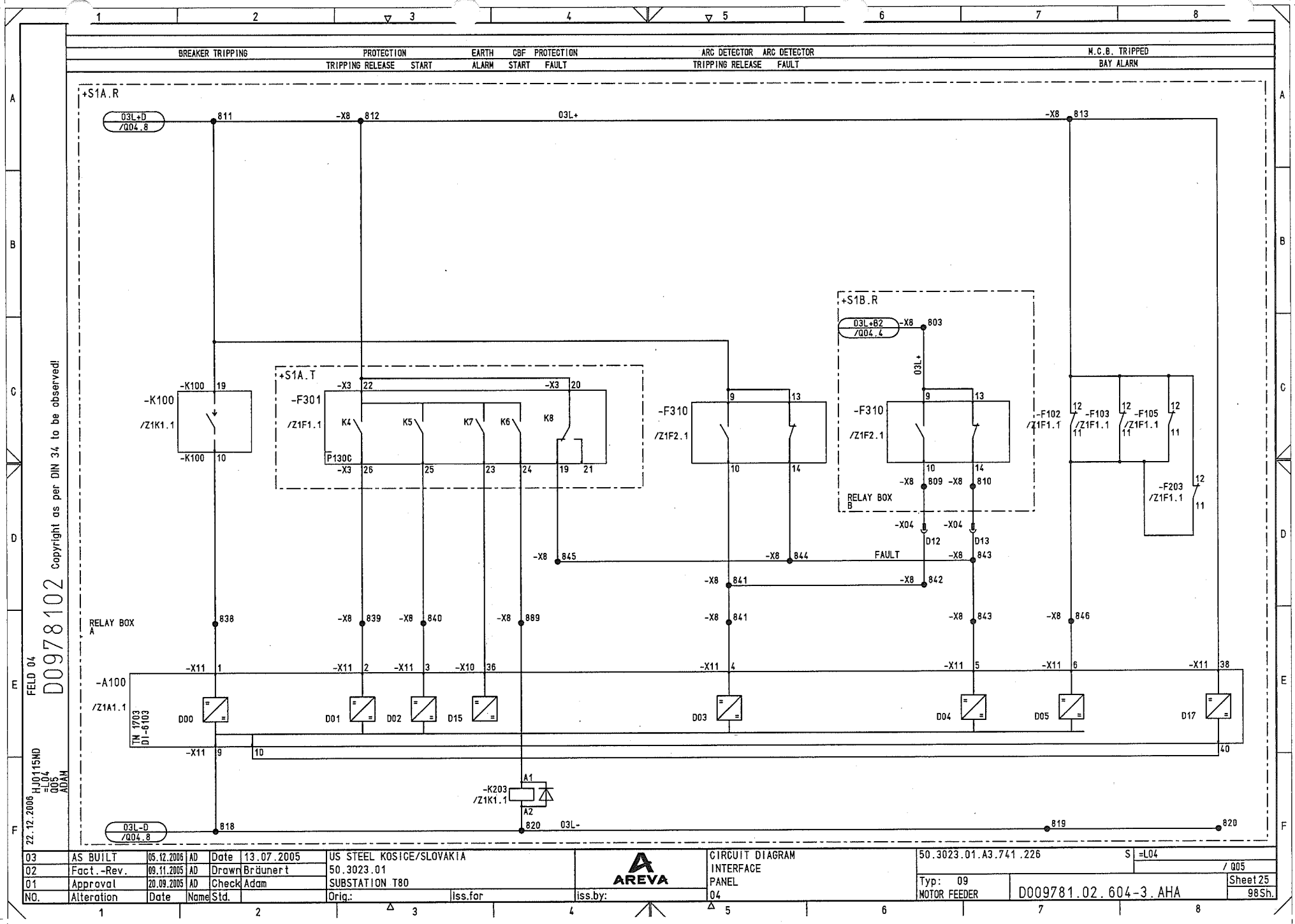
CIRCUIT DIAGRAM
INTERFACE
PANEL
04

50.3023.01.A3.741.226 S =L04 / Q04

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 24
98 Sh.


BREAKER TRIPPING
PROTECTION TRIPPING RELEASE
PROTECTION START
EARTH ALARM
CBF PROTECTION START
CBF PROTECTION FAULT
ARC DETECTOR TRIPPING RELEASE
ARC DETECTOR FAULT
N.C.B. TRIPPED BAY ALARM
+S1A.R
+S1A.T
+S1B.R
RELAY BOX A
RELAY BOX B
-A100
/Z1A1.1
-K100
/Z1K1.1
-F301
/Z1F1.1
-F310
/Z1F2.1
-F102
/Z1F1.1
-F103
/Z1F1.1
-F105
/Z1F1.1
-F203
/Z1F1.1
-K203
/Z1K1.1
P130C
FAULT
03L+D /Q04.8
03L+
03L+B2 /Q04.4
03L-D /Q04.8
03L-
D00
D01
D02
D15
D03
D04
D05
D17
D12
D13
TM 1703 D1-6103
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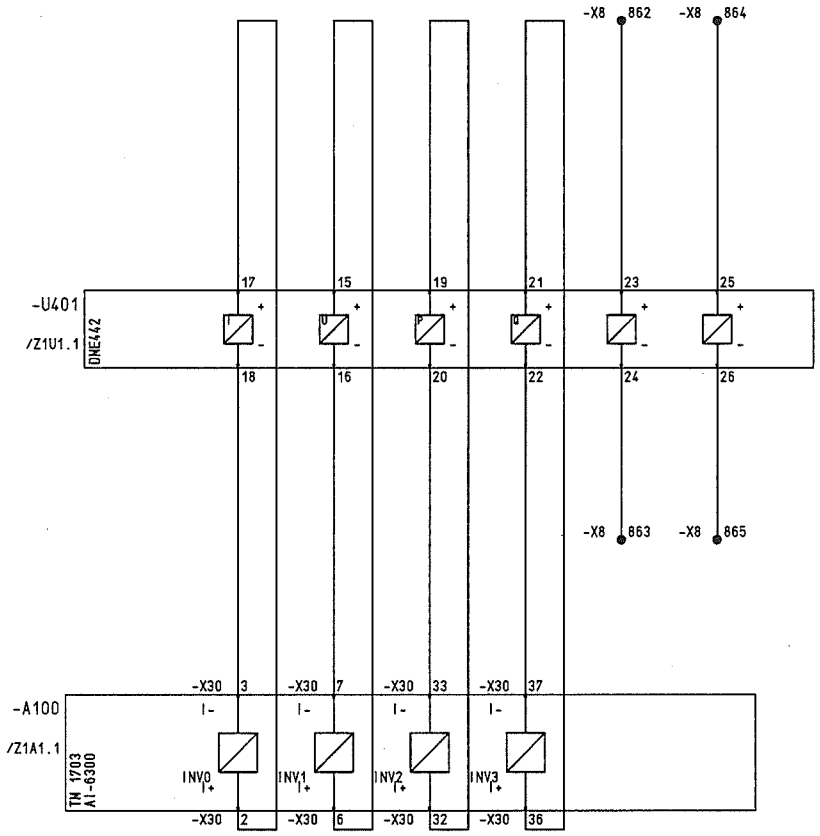
D0978102
FELD 04
22.12.2006 HJ0115ND =L04 005 ADAH
US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80
CIRCUIT DIAGRAM
INTERFACE
PANEL 04
50.3023.01.A3.741.226
=L04
/ Q05
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 25
98Sh.
03 AS BUILT 05.12.2006 AD
02 Fact.-Rev. 09.11.2005 AD
01 Approval 20.09.2005 AD
NO. Alteration Date Name
Date 13.07.2005
Drawn Bräunert
Check Adam
Std.
Orig.:
Iss.for
Iss.by:

MEASUREMENT

VOLTAGE POWER

CURRENT ACTIVE POWER REACTIVE POW.

+S1A.R



RELAY BOX
A

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D009781 02 FELD 04

22.12.2006 HJ0115ND =L04 Q06 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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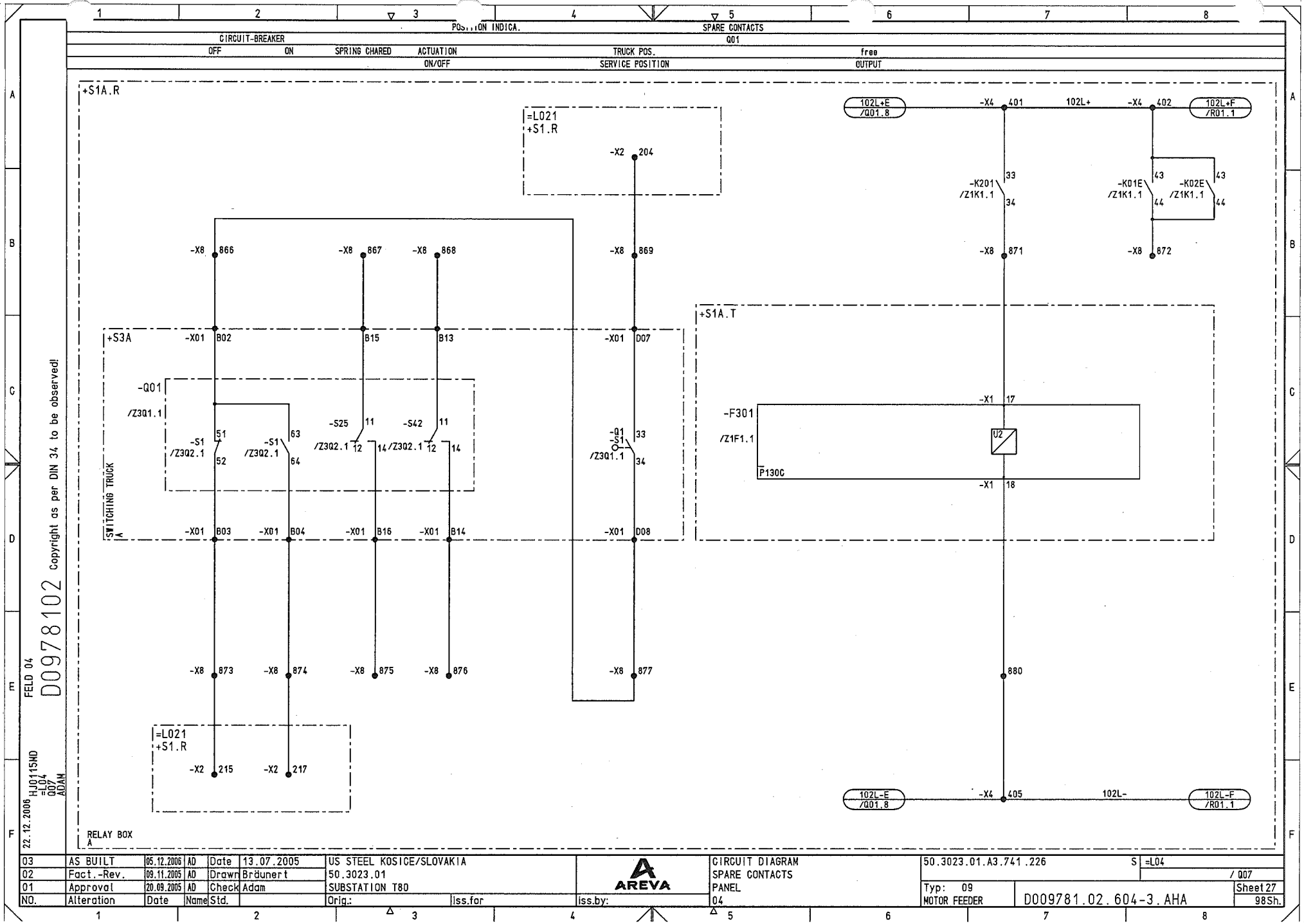
CIRCUIT DIAGRAM
INTERFACE
PANEL
04

50.3023.01.A3.741.226 S =L04 / Q06

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 26 98Sh.



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FELD 04
D0978102
22.12.2006 HJ0115HD =L04 Q07 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL
04

50.3023.01.A3.741.226 S =L04 / Q07

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

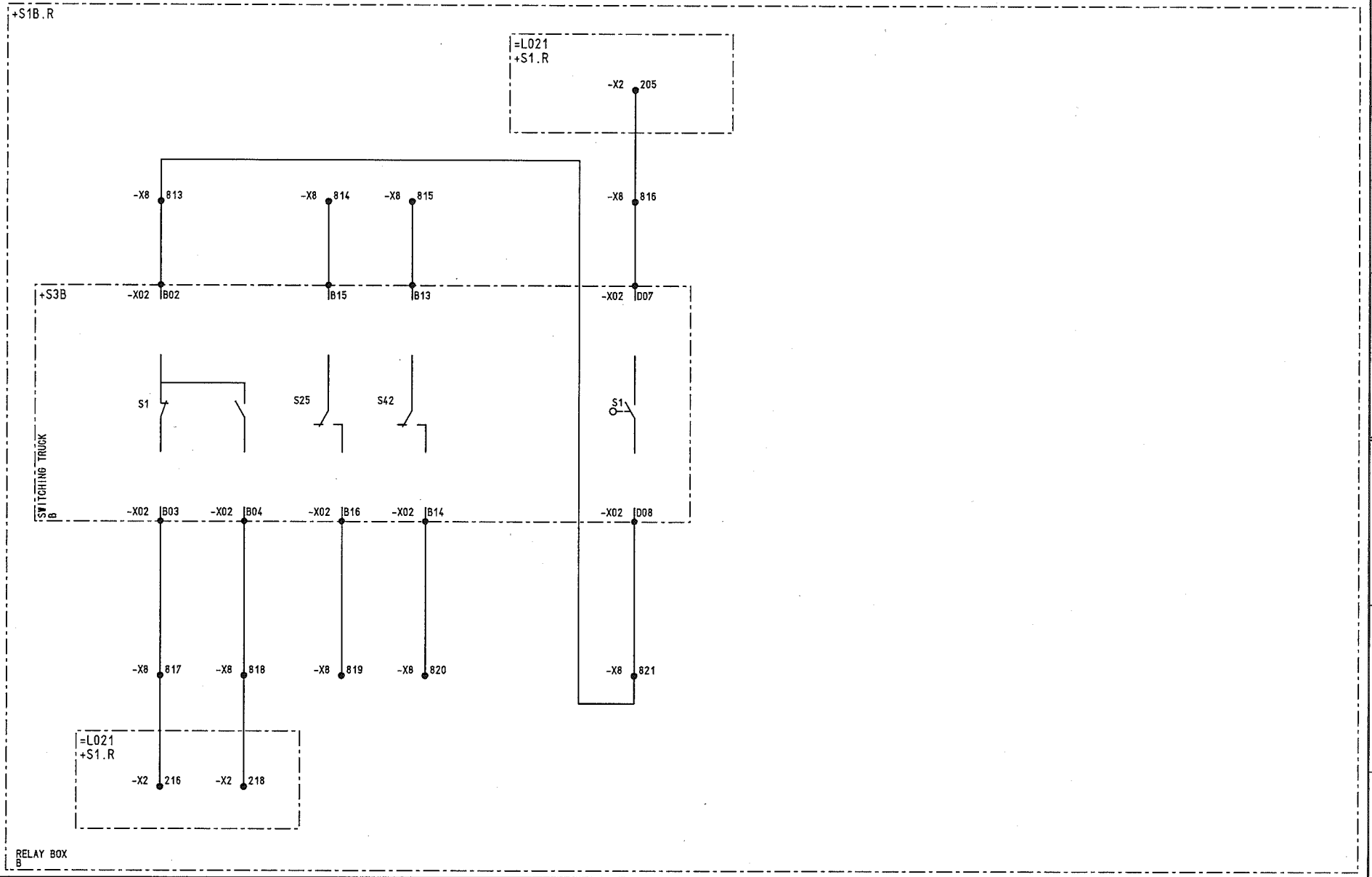
Sheet 27
98Sh.

POSITION INDICA. | SPARE CONTACTS

CIRCUIT-BREAKER | Q02

OFF | ON | SPRING CHARED | ACTUATION | TRUCK POS.

ON/OFF | SERVICE POSITION



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FELD 04 D0978102

22.12.2006 HJ01115ND =L04 Q08 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

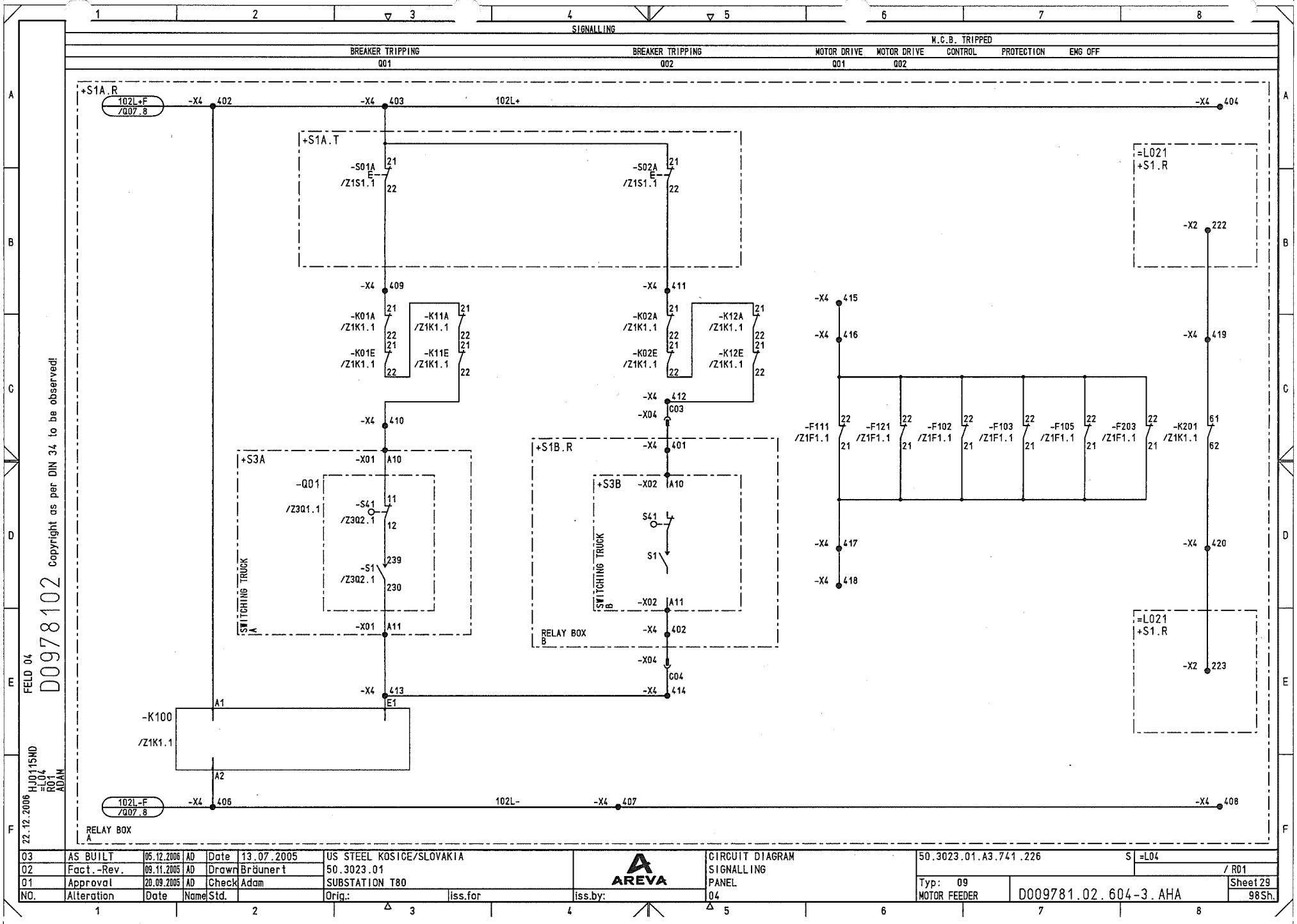
CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL
04

50.3023.01.A3.741.226 S =L04 / Q08

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 28
98Sh.



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FELD 04
D0978102
22.12.2006 HJQ115MD =L04 R01 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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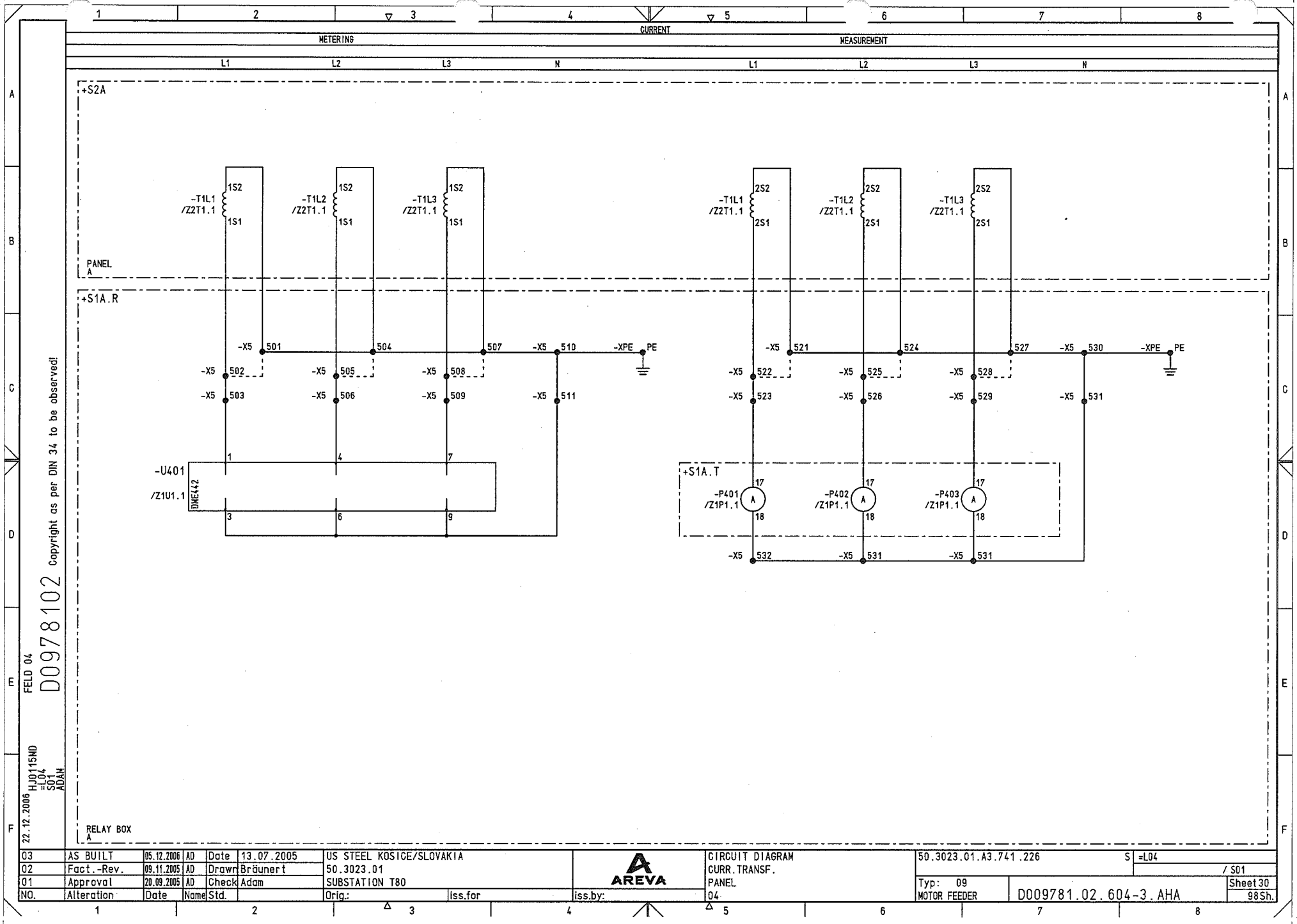
CIRCUIT DIAGRAM
SIGNALLING
PANEL
04

50.3023.01.A3.741.226 S =L04 / R01

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 29
98Sh.



NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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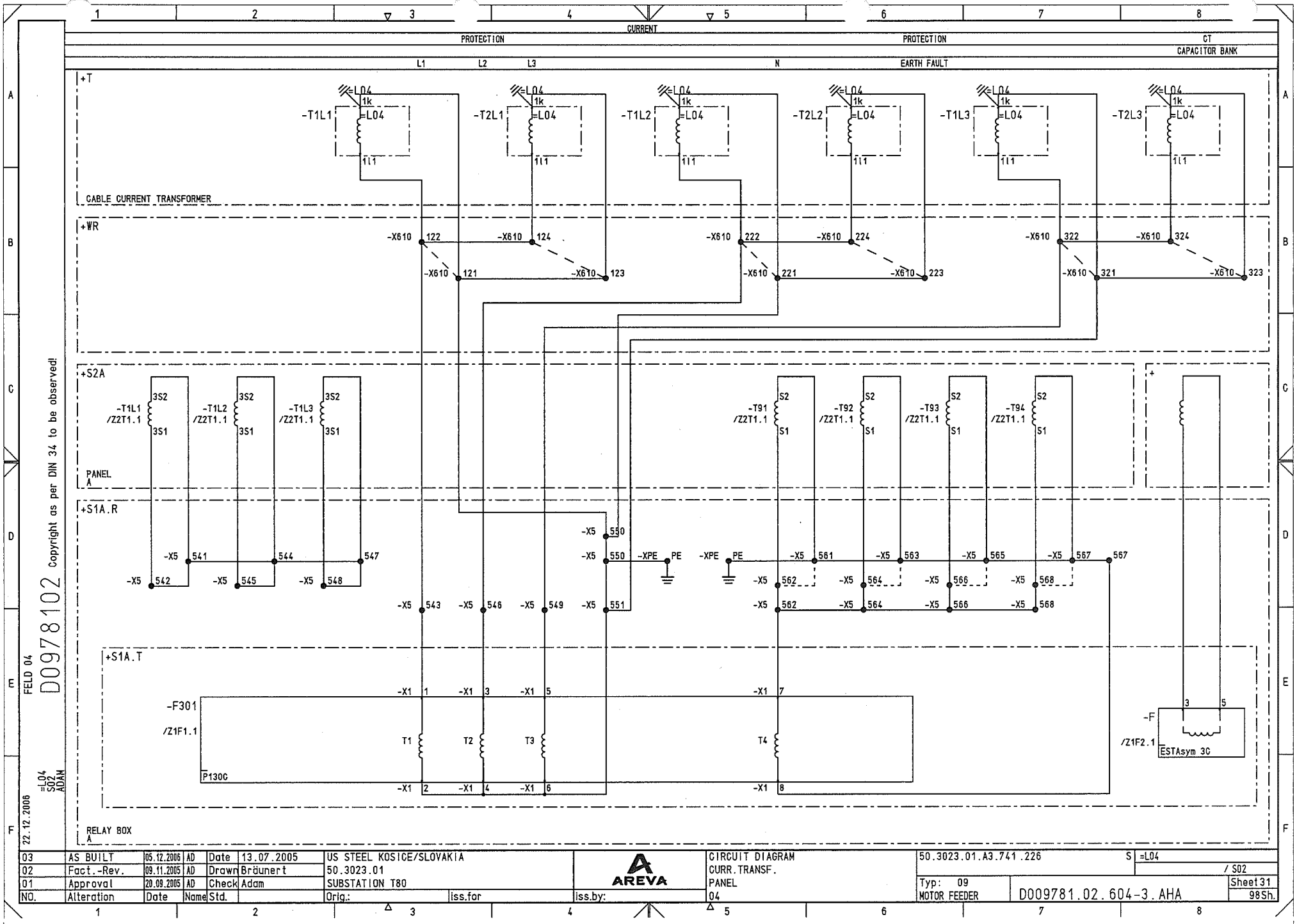
CIRCUIT DIAGRAM
CURR.TRANSF.
PANEL
04

50.3023.01.A3.741.226 S =L04 / S01

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 30
98Sh.



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FELD 04
D0097810 2
=L04
S02
ADAM
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

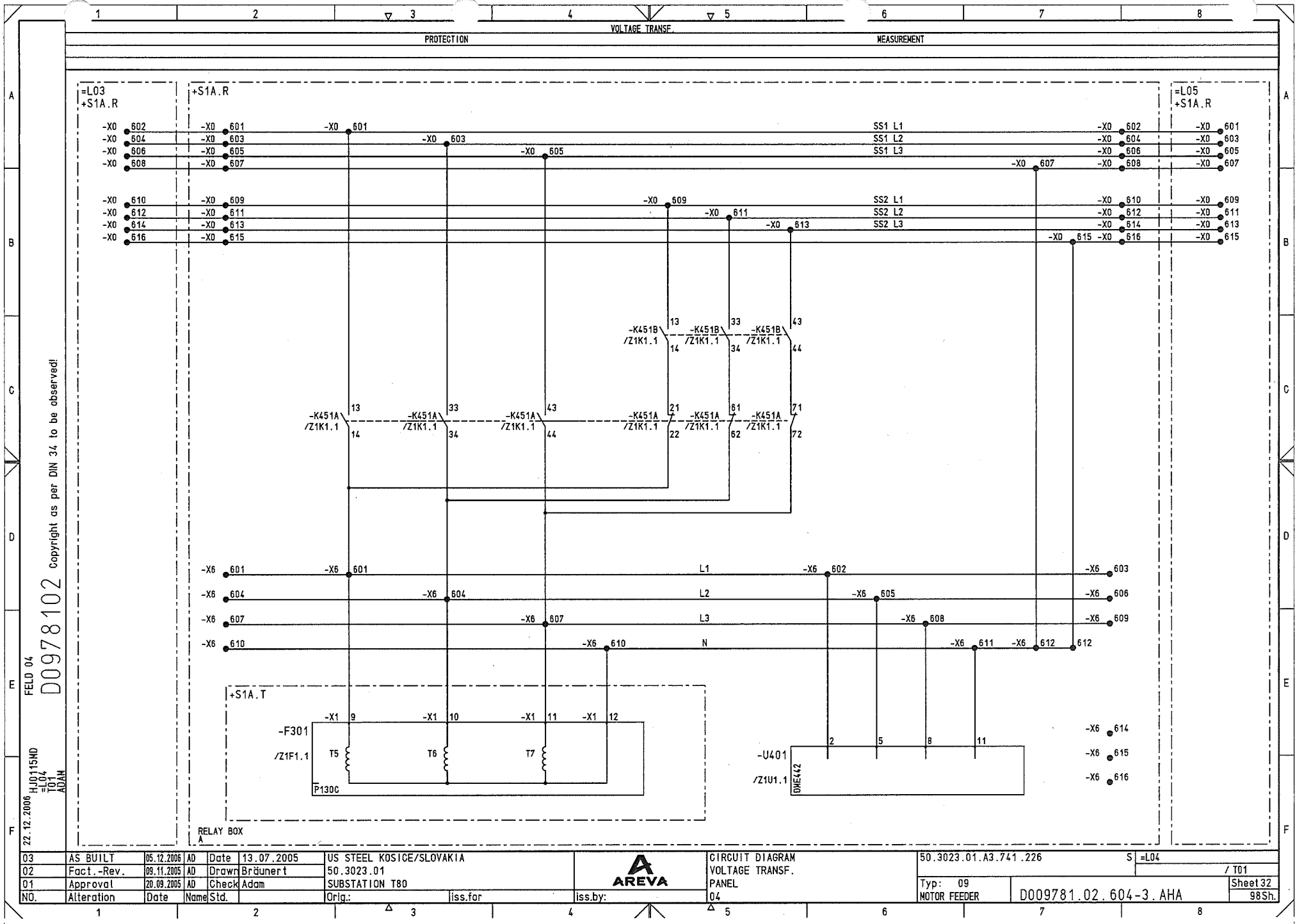
CIRCUIT DIAGRAM
CURR.TRANSF.
PANEL
04

50.3023.01.A3.741.226 S =L04 / S02

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 31
98Sh.



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FELD 04
D0978102
22.12.2006 HJ0115ND =L04 T01 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CIRCUIT DIAGRAM
VOLTAGE TRANSF.
PANEL
04

50.3023.01.A3.741.226 S =L04 / T01

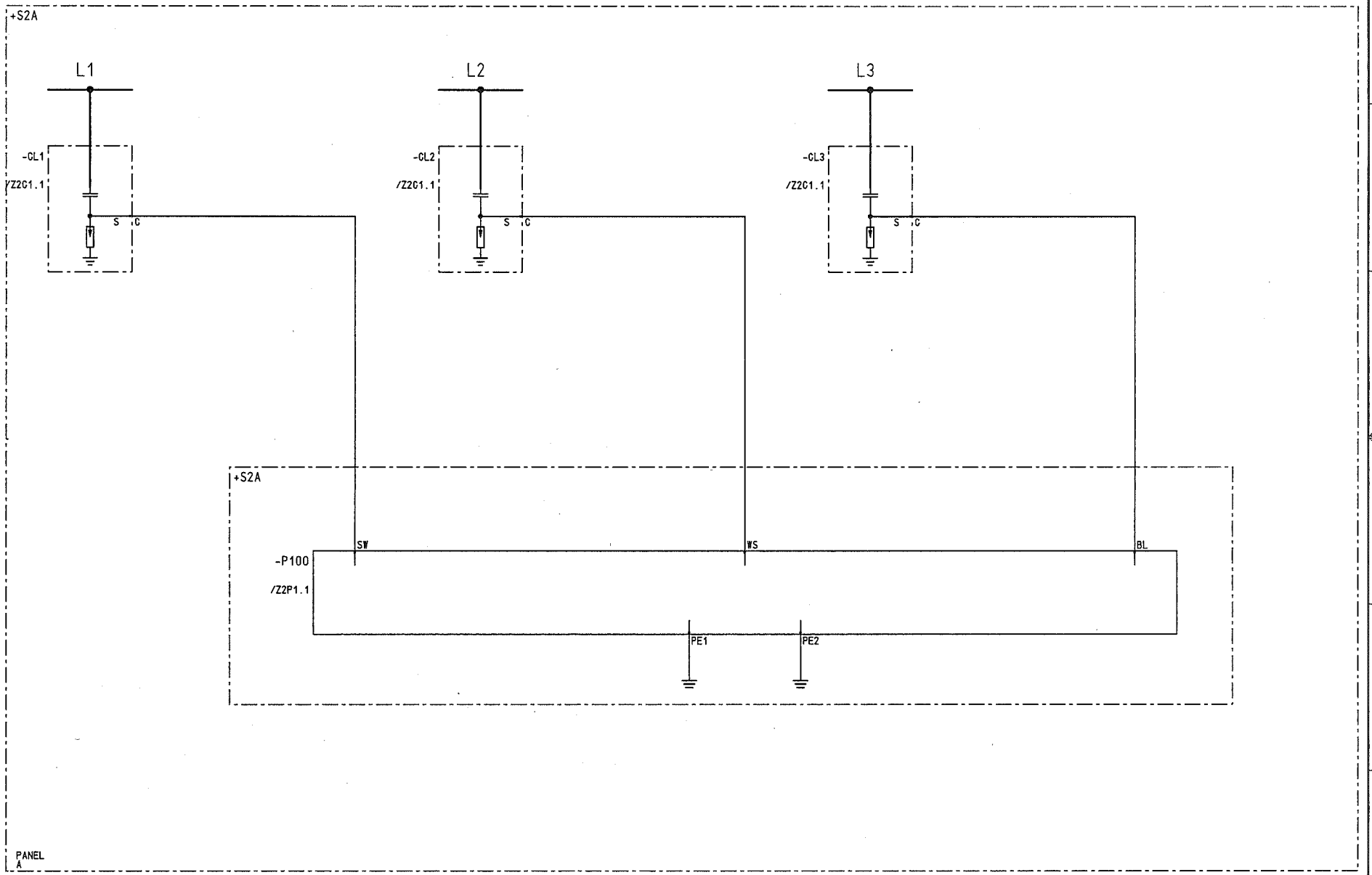
Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 32
98Sh.

CAPACITIVE VOLTAGE INDICATION (VDS)

CAP. TAP ON IVIS POST INSULATOR	DISPLAY	CAP. TAP ON IVIS POST INSULATOR	DISPLAY	CAP. TAP ON IVIS POST INSULATOR	DISPLAY



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FELD 04
D0978102
22.12.2006 HJ0115WD
=L04
T02
ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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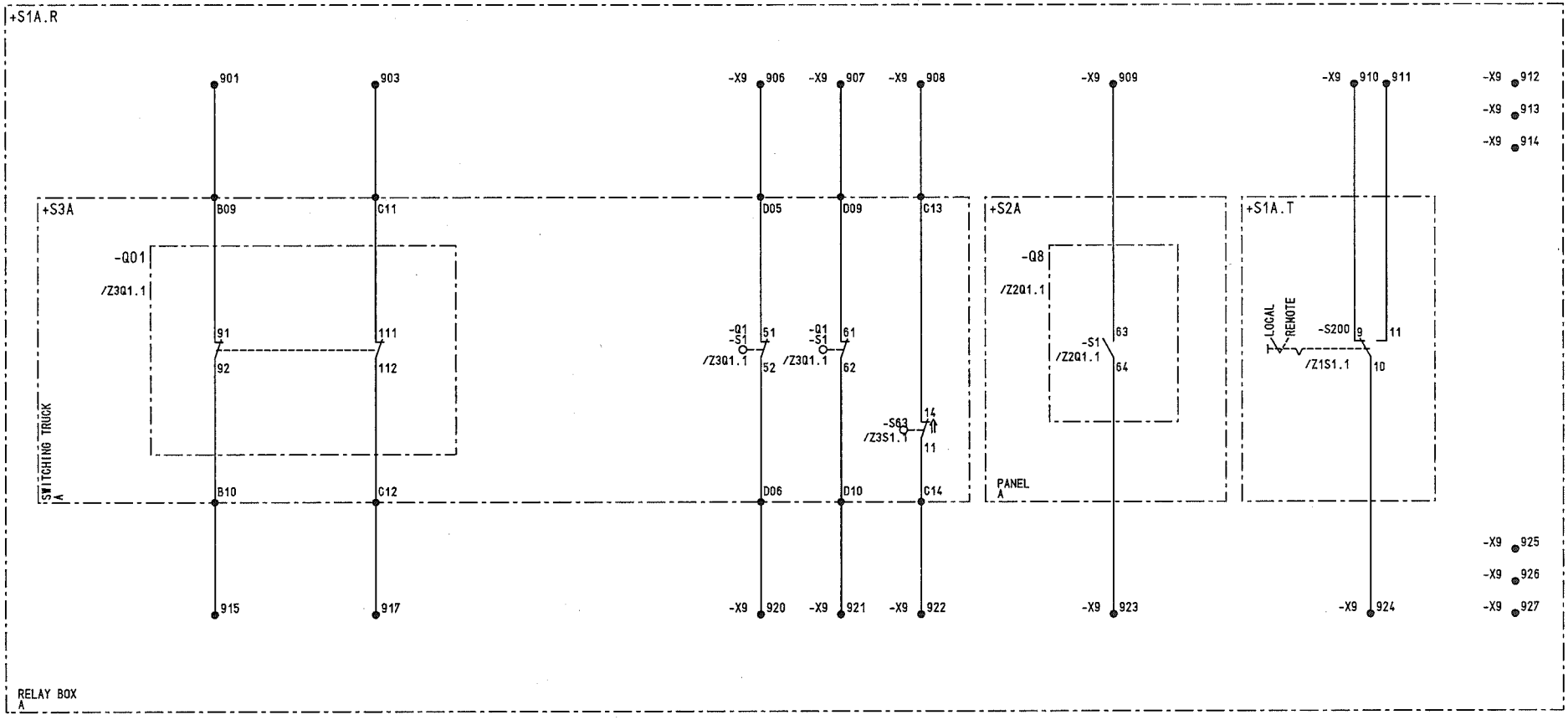
CIRCUIT DIAGRAM
IVIS
PANEL
04

50.3023.01.A3.741.226 S =L04
/ T02
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 33
98Sh.

SPARE CONTACTS

CIRCUIT-BREAKER Q01				EARTHING SWITCH	DOUBLE THROW SWITCH
OFF	OFF	TEST. POS.	TEST. POS.	ON	LOCAL / REMOTE



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FELD 04
D0978102
22.12.2006
HJ0115MD
=L04
V01
ADAM

NO.		Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL
04

50.3023.01.A3.741.226 S =L04 / V01

Typ: 09
MOTOR FEEDER

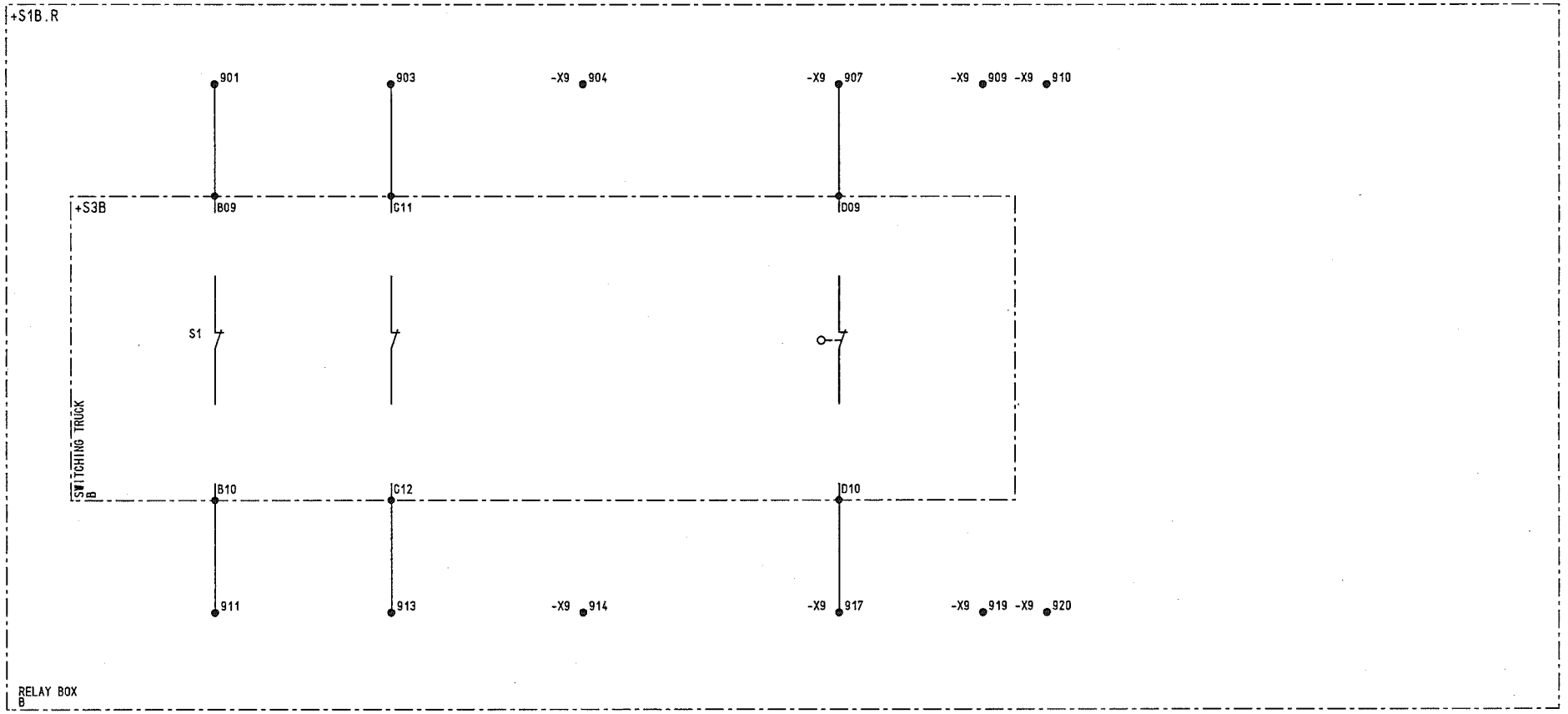
D009781.02.604-3.AHA

Sheet 34
98Sh.

SPARE CONTACTS

CIRCUIT-BREAKER
Q02

OFF | OFF | TEST. POS.



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FELD 04
D0978102
22.12.2006 HJ0115ND =L04 V02 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

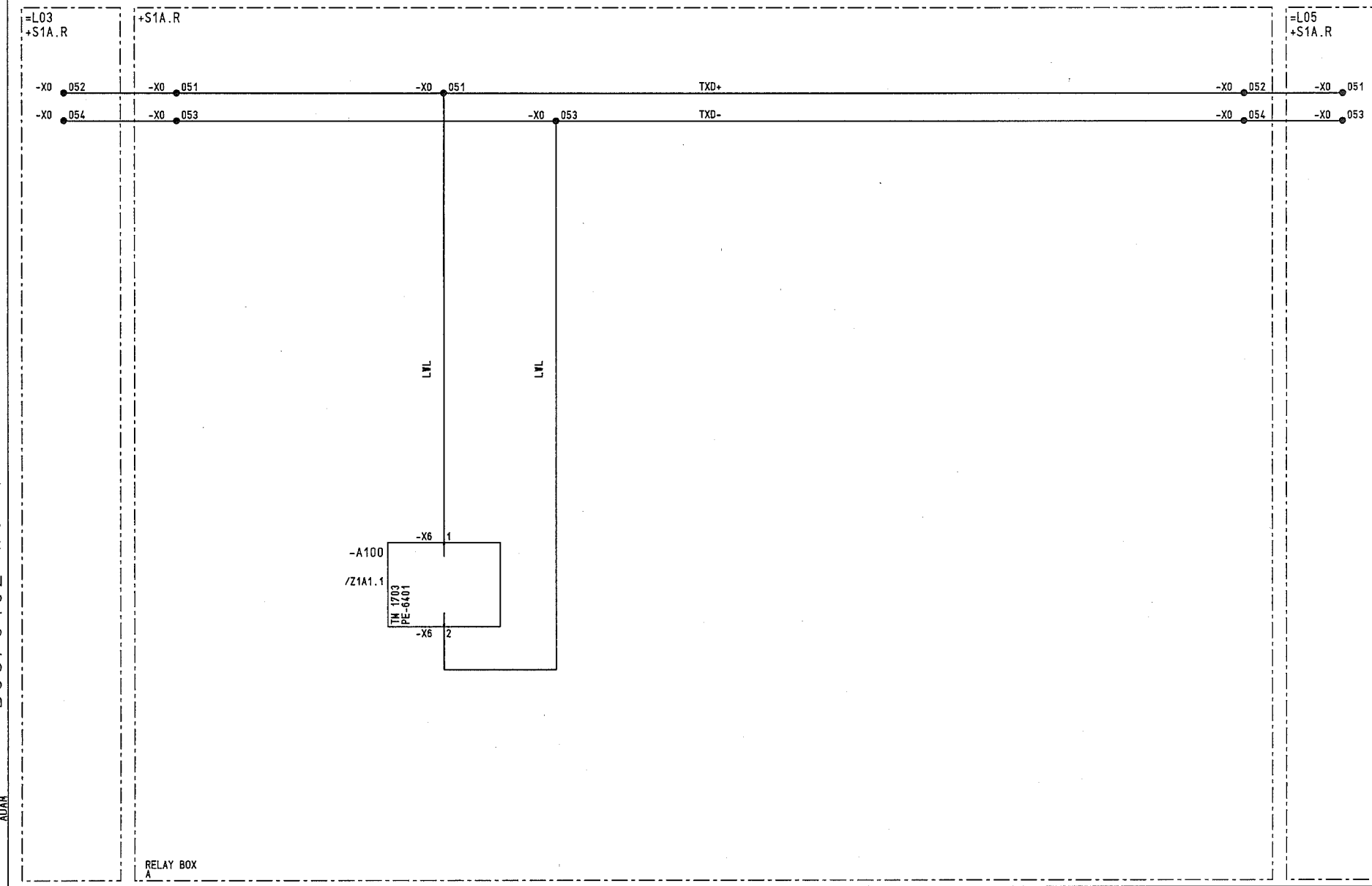
CIRCUIT DIAGRAM
SPARE CONTACTS
PANEL
04

50.3023.01.A3.741.226 S =L04 / V02

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 35
98Sh.



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FELD 04
D0978102
22.12.2006 HJ0115ND =L04 X01 ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	CIRCUIT DIAGRAM	50.3023.01.A3.741 .226	S	=L04		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		AX PE-BUS				/ X01	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09				Sheet 36
NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:	04	MOTOR FEEDER	D009781.02.604-3.AHA		98Sh.

STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS MOUNTING APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	INTERFACE SAT 1703 AUTOMATION SYSTEMS : 24-60V DC	MANUF.: VA TECH SAT PO NO.: TYPE TM 1703	REFERENCES FOR GROUP REPRES. IN CIRCUIT DIAGRAM REFERENCES TO SEP. DOCUMENTS WITH DETAILS OF REPRES. REFERENCES FOR REPRES.OF APPLIANCE CONNECTIONS	

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER
		+S1A.R	-A100

/K04.2 /002.3 /002.1 /003.3 /004.1 /005.1 /006.3 /X01.3

-X1 /Z1A10.1 -X6 /Z1A10.1 -X10 /Z1A10.3 -X11 /Z1A10.6 -X20 /Z1A11.1 -X30 /Z1A11.4

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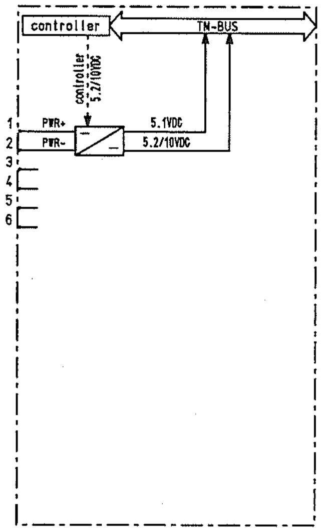
FELD 04
D0978102
22.12.2006 HJ0115MD
=L04
Z1A1
ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	LIST OF EQUIPMENT	50.3023.01.A3.741.226	S	=L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01					/ Z1A1
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL 04	Typ: 09 MOTOR FEEDER	D009781.02.604-3.AHA	Sheet 37 98Sh.
NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:			

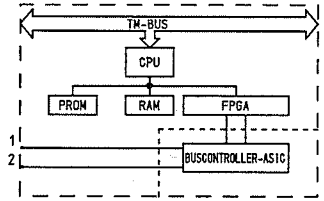
MOUNTING	+S1A.R	STATUS	APP. REF.
APPA. DESIG	-A100		REF.
PIN	-X1		/Z1A1.1
MEANING			REF.
1	PWR+		/Q02.2
2	PWR-		/Q02.2
3	PE		
4			
5	N/O		
6	COM		

power supply module
PS-6632



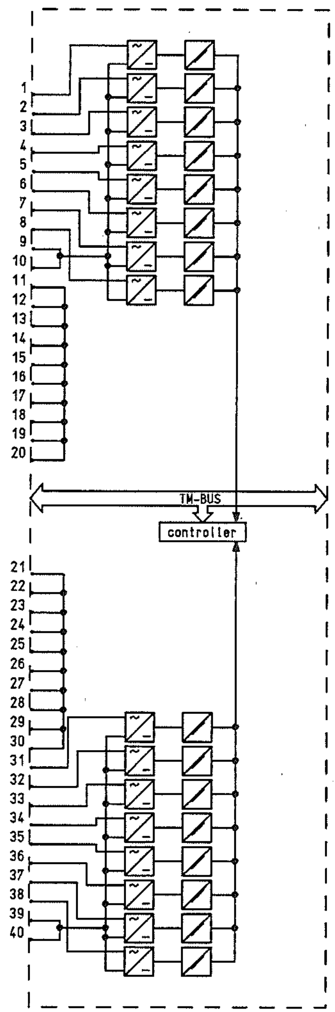
MOUNTING	+S1A.R	STATUS	APP. REF.
APPA. DESIG	-A100		REF.
PIN	-X6		/Z1A1.1
MEANING			REF.
1	Ax PE-Bus		/X01.3
2	Ax PE-Bus		/X01.3

peripheral control module
PE-6401



MOUNTING	+S1A.R	STATUS	APP. REF.
APPA. DESIG	-A100		REF.
PIN	-X10		/Z1A1.1
MEANING			REF.
1	IN D00		/Q02.3
2	IN D01		/Q02.4
3	IN D02		/Q03.4
4	IN D03		/Q03.4
5	IN D04		/Q02.5
6	IN D05		/Q02.5
7	IN D06		/Q03.5
8	IN D07		/Q03.5
9	AUX V-(+)		/Q02.3
10	AUX V-(+)		/Q02.4
11	AUX V+(-)		
12	AUX V+(-)		
13	AUX V+(-)		
14	AUX V+(-)		
15	AUX V+(-)		
16	AUX V+(-)		
17	AUX V+(-)		
18	AUX V+(-)		
19	AUX V+(-)		
20	AUX V+(-)		
21	AUX V+(-)		
22	AUX V+(-)		
23	AUX V+(-)		
24	AUX V+(-)		
25	AUX V+(-)		
26	AUX V+(-)		
27	AUX V+(-)		
28	AUX V+(-)		
29	AUX V+(-)		
30	AUX V+(-)		
31	IN D10		/Q02.6
32	IN D11		/Q02.7
33	IN D12		/Q04.2
34	IN D13		/Q04.3
35	IN D14		/Q04.6
36	IN D15		/Q05.3
37	IN D16		
38	IN D17		
39	AUX V-(+)		
40	AUX V-(+)		/Q02.6

I/O module DI-6103



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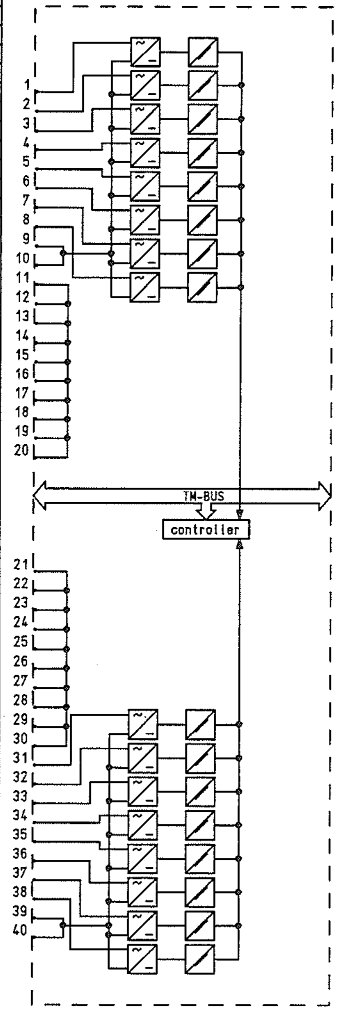
APPA. DESIG	-A100		REF.
PIN	-X11		/Z1A1.1
MEANING			REF.
1	IN D00		/Q05.2
2	IN D01		/Q05.3
3	IN D02		/Q05.3
4	IN D03		/Q05.5
5	IN D04		/Q05.6
6	IN D05		/Q05.7
7	IN D06		.
8	IN D07		.
9	AUX V-(+)		/Q05.2
10	AUX V-(+)		/Q05.2
11	AUX V+(-)		
12	AUX V+(-)		
13	AUX V+(-)		
14	AUX V+(-)		
15	AUX V+(-)		
16	AUX V+(-)		
17	AUX V+(-)		
18	AUX V+(-)		
19	AUX V+(-)		
20	AUX V+(-)		
21	AUX V+(-)		
22	AUX V+(-)		
23	AUX V+(-)		
24	AUX V+(-)		
25	AUX V+(-)		
26	AUX V+(-)		
27	AUX V+(-)		
28	AUX V+(-)		
29	AUX V+(-)		
30	AUX V+(-)		
31	IN D10		.
32	IN D11		.
33	IN D12		.
34	IN D13		.
35	IN D14		.
36	IN D15		.
37	IN D16		.
38	IN D17		/Q05.8
39	AUX V-(+)		
40	AUX V-(+)		/Q05.8

I/O module DI-6103



FELD 04
D0978102 Copyright as per DIN 34 to be observed!
22.12.2006 HJ0115MD =L04 Z1A10 ADAM

NO.	Alteration	Date	Name	Std.		
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80
						Orig.: iss.for iss.by:

AREVA

LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z1A10
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 38
98Sh.

MOUNTING	+S1A.R	STATUS	APP.
APPA. DESIG	-A100		REF.
PIN	-X20		/Z1A1.1
MEANING			REF.

I/O module DO-6212

COM00 /M04.2
AUX V0-
COM01 /M04.3
AUX V0-
COM02 /M04.3
AUX V0-
COM03 /M04.4
AUX V0-
AUX V0-
AUX V0-
OUT D00 /M04.2
AUX V0+
OUT D01 /M04.3
AUX V0+
OUT D02 /M04.3
AUX V0+
OUT D03 /M04.4
AUX V0+
AUX V0+
AUX V0+
OUT D04
AUX V1+
OUT D05
AUX V1+
OUT D06
AUX V1+
OUT D07
AUX V1+
AUX V1+
AUX V1+
COM04
AUX V1-
COM05
AUX V1-
COM06
AUX V1-
COM07
AUX V1-
AUX V1-
AUX V1-

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

TM-BUS
controller

MOUNTING	+S1A.R	STATUS	APP.
APPA. DESIG	-A100		REF.
PIN	-X30		/Z1A1.1
MEANING			REF.

I/O module AI-6300

AUX V0+
IN V0 I+ /Q06.3
IN V0 I- /Q06.3
AUX V0-
AUX V0+
IN V1 I+ /Q06.4
IN V1 I- /Q06.4
AUX V0-
AUX V0-
AUX V0-
AUX V0+
IN V0 U+
IN V0 U-
AUX V0-
AUX V0+
IN V1 U+
IN V1 U-
AUX V0-
AUX V0+
AUX V0+
AUX V1+
IN V2 U+
IN V2 U-
AUX V1-
AUX V1+
IN V3 U+
IN V3 U-
AUX V1-
AUX V1-
AUX V1+
IN V2 I+ /Q06.4
IN V2 I- /Q06.4
AUX V1-
AUX V1+
IN V3 I+ /Q06.5
IN V3 I- /Q06.5
AUX V1-
AUX V1-
AUX V1-

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Multiplexer
U
TM-BUS
controller
Multiplexer
U

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FELD 04
D0978102
22.12.2006 HJ0115ND =L04 Z1A11 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL
04

50.3023.01.A3.741.226 S =L04 / Z1A11
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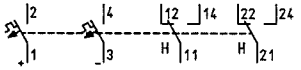
STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK

3 M.C.B. MANUF.: GE POWER CONTROLS TYPE EP102 UC B6
PO NO.: 566311
AUXILIARY SWITCH HH
RATED CURRENT : 6A CHARACTERISTIC : B

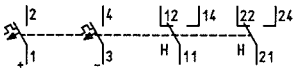
TECHNICAL COMPONENTS	TYP	ORDER NO
1 AUXILIARY SWITCH	CB SH/HH-R	672570



APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER				
CONTROL		+S1A.R	-F102	/G01.4	/G01.4	/Q05.7	/R01.6
PROTECTION		+S1A.R	-F103	/G01.5	/G01.5	/Q05.7	/R01.7
EMG OFF		+S1A.R	-F105	/G01.6	/G01.7	/Q05.8	/R01.7

2 M.C.B. MANUF.: GE POWER CONTROLS TYPE EP102 UC C0,5
PO NO.: 566336
AUXILIARY SWITCH HH
RATED CURRENT : 0,5A CHARACTERISTIC : C

TECHNICAL COMPONENTS	TYP	ORDER NO
1 AUXILIARY SWITCH	CB SH/HH-R	672570



APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER				
MOTOR DRIVE		+S1A.R	-F111	/G01.2	/G01.2	/Q04.2	/R01.6
MOTOR DRIVE		+S1A.R	-F121	/G01.3	/G01.3	/Q04.2	/R01.6

1 MONIT.- PROTECTION MANUF.: AREVA TYPE P130C
PO NO.: MICOM P130-98903020-401-301
MOTOR PROTECTION IN=AC 1/5 UN=AC 50-130 fN=50/60Hz
AUXILIARY VOLTAGE : DC24-60V/DC110-250V/ : AC100-230V

TECHNICAL COMPONENTS	TYP	ORDER NO

REFERENCES FOR GROUP REPRES. IN CIRCUIT DIAGRAM

REFERENCES TO SEP. DOCUMENTS WITH DETAILS OF REPRES.

REFERENCES FOR REPRES.OF APPLIANCE CONNECTIONS

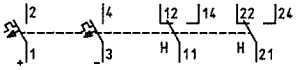
APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER
		+S1A.T	-F301

/G01.5	/G02.3	/R01.5	/R02.5	/R05.3	/R01.5	/Q05.2	/Q07.5	/S02.2	/T01.2

-X1 /Z1F10.1	-X3 /Z1F10.3	-X6 /Z1F10.3	-X7 /Z1F10.5	-X8 /Z1F10.5	-X9 /Z1F10.5	-X10 /Z1F10.5	-X11 /Z1F10.5	-X31 /Z1F10.5	-X32 /Z1F10.5	-X33 /Z1F10.7	LED /Z1F10.7	-XPE /Z1F11.1

1 M.C.B. MANUF.: MOELLER TYPE C 4A
PO NO.:
AUXILIARY SWITCH HH
RATED CURRENT : 4A CHARACTERISTIC : C

TECHNICAL COMPONENTS	TYP	ORDER NO
1 AUXILIARY SWITCH		



APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER				
SIGNALLING		+S1A.R	-F203	/G01.7	/G01.7	/Q05.8	/R01.7

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22.12.2006 HJ0115ND =L04 Z1F1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL 04

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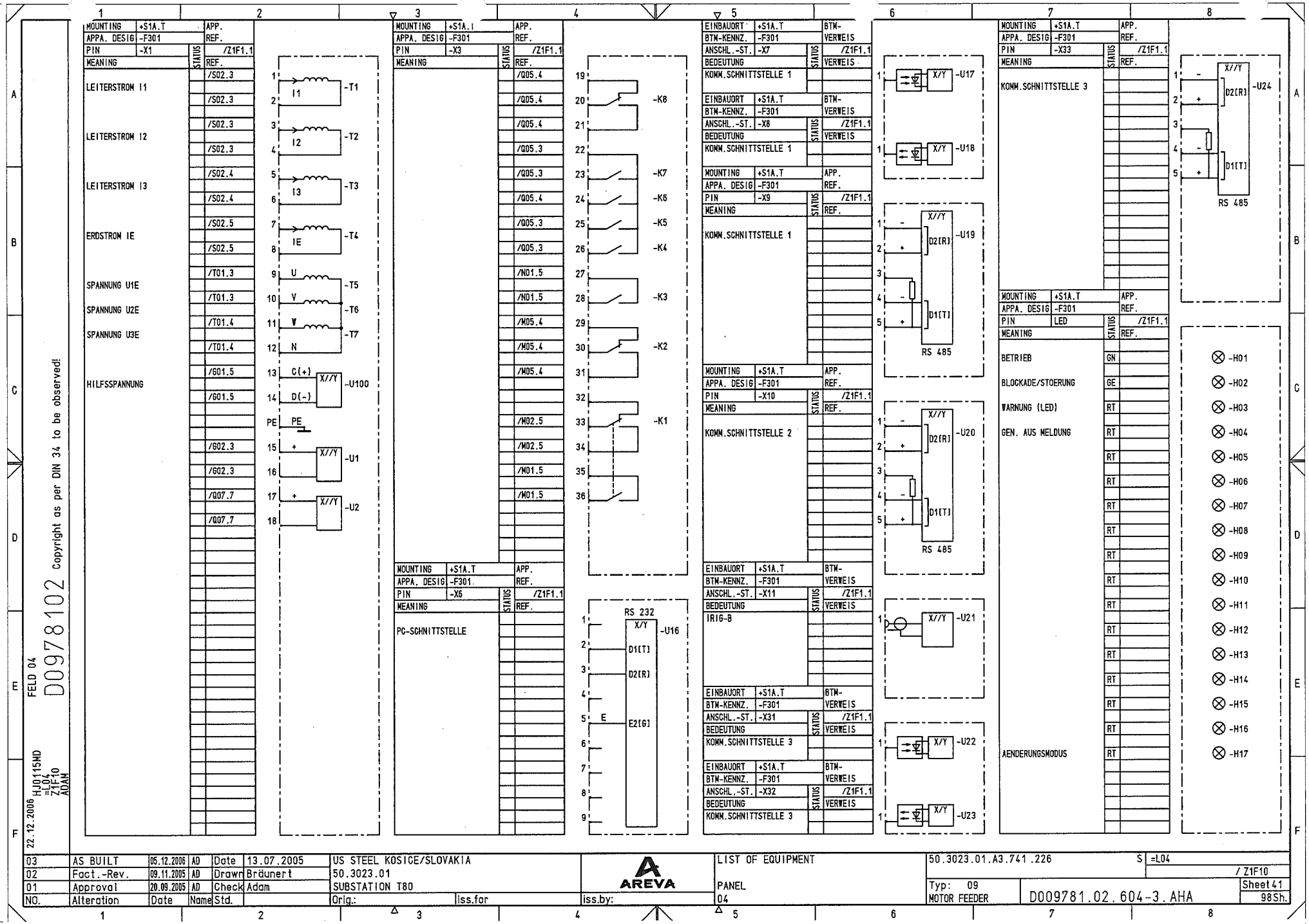

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22.12.2006 HJ0115MD =L04 Z1F10 ADAM

NO.	Alteration	Date	Name	Std.
03	AS BUILT	05.12.2006	AD	
02	Fact.-Rev.	09.11.2005	AD	
01	Approval	20.09.2005	AD	

Date 13.07.2005
Drawn Bräunert
Check Adam
Orig.: liss.for

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

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liss.by:

LIST OF EQUIPMENT
PANEL 04

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MOUNTING	+S1A.T		APP.
APPA. DESIG	-F301	STATUS	REF.
PIN	-XPE		/Z1F1.1
MEANING			REF.
GEHÄUSE ERDUNG			

GEHAEUSE
SCHUTZERDUNG

PE PE

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22.12.2006 HJ0115ND
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Z1F11
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NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL
04

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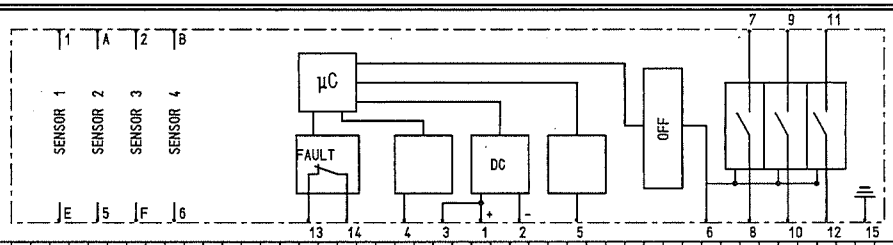
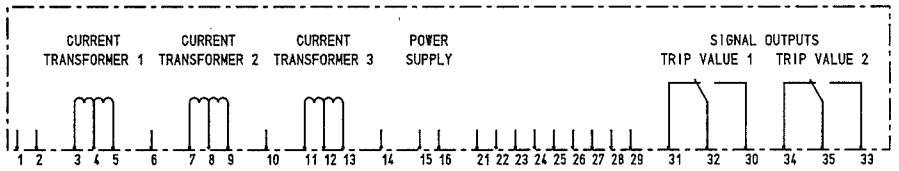
Stock-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	ARC DETECTOR DC 24V	MANUF.: AREVA PO NO.: C66622		TYPE ILIS			

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER
ARC DETECTOR		+S1A.R	-F310
ARC DETECTOR		+S1B.R	-F310

Stock-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	RELAY UNBALANCE MONITORING RELAY	MANUF. : ORD.NR. :		TYPE:ESTAsym 3C			

TECHNICAL COMPONENTS	TYPE	ORDERING NUMBER

APPLICATION	SETTING VALUES	LOCATION	ITEM DESIGNATION
		+S1A.T	-F

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NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z1F2

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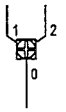
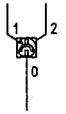
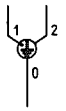
STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA / APPLICATION	MANUFACTURER, TYPE, ORDERING DATA / SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM / REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	STELLUNGSMELDER RUECKMELDER TRENNSCHALTER : 220VAC/220VDC	MANUF.: messMa TYPE EST-L PO NO.: EST-L-1746-08-330-21 : GELB					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	CIRCUIT-BREAKER ON/OFF		+S1A.T	-H01		/Q01.2	
	CIRCUIT-BREAKER ON/OFF		+S1A.T	-H02		/Q01.5	
2	STELLUNGSMELDER RUECKMELDER SCHALTWAGEN : 220VAC/220VDC	MANUF.: messMa TYPE EST-L PO NO.: EST-L-1746-08-231-21 : GELB					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	SWITCHING TRUCK SERVICE POS. TEST POS.		+S1A.T	-H011		/Q01.3	
	SWITCHING TRUCK SERVICE POS. TEST POS.		+S1A.T	-H021		/Q01.6	
1	STELLUNGSMELDER RUECKMELDER ERDER : 220VAC/220VDC	MANUF.: messMa TYPE EST-L PO NO.: EST-L-1746-08-131-21 : GELB					
	TECHNICAL COMPONENTS	TYP	ORDER NO				
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER			
	EARTHING SWITCH OFF/ON		+S1A.T	-H8		/Q01.7	

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NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
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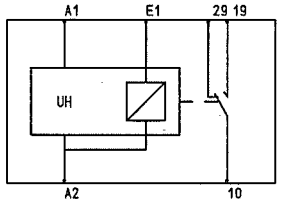
1 TIME RELAY MANUF.: AREVA TYPE C27900
PO NO.: 701917/1
OUTPUT PULSE
t=50ms
FUNCTION : IMPULSDEHNER RATED VOLTAGE : 24-240AC/DC

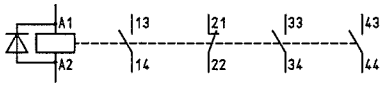


TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER
PULSE EXPD.		+S1A.R	-K100

/R01.2	/R01.3	/Q05.2										

9 AUXILIARY CONTACTOR MANUF.: Schneider Electric TYPE CA3-KN31 MD3
PO NO.: CA3-KN31 MD3
RATED VOLTAGE : 220VDC :

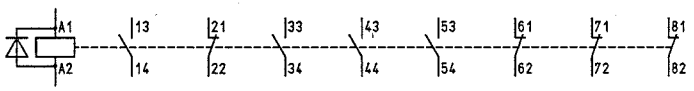


TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER
C.B. OPEN		+S1A.R	-K01A
C.B. CLOSED		+S1A.R	-K01E
C.B. OPEN		+S1A.R	-K02A
C.B. CLOSED		+S1A.R	-K02E
ANTI-PUMPING FEATURE		+S1A.R	-K202
		+S1A.R	-K71
		+S1A.R	-K72
ENG OFF		+S1A.R	-K501
		+S1A.R	-K203

/M04.2	/M01.6	/R01.3										
/M04.3	/M01.7	/R01.3	/M01.7	/Q07.7								
/M04.3	/M02.6	/R01.5										
/M04.4	/M02.7	/R01.5	/M02.7	/Q07.8								
/M02.4	/M02.7	/M02.7										
/M03.8	/Q01.4		/Q02.6									
/M03.7	/Q01.7		/Q03.6	/M03.4								
/M01.2	/M01.3		/M02.3									
/Q05.4	/G00.4		/G00.6									

2 AUXILIARY CONTACTOR MANUF.: Schneider Electric TYPE CA3-KN31 MD3
PO NO.: CA3-KN31 MD3+LA1 KN13
RATED VOLTAGE : 220VDC :

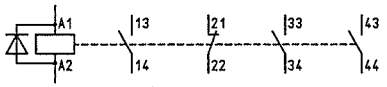


TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER
VOLT.TRANSF SELECTION		+S1A.R	-K451A
VOLT.TRANSF SELECTION		+S1A.R	-K451B
ANTI-PUMPING FEATURE		+S1A.R	-K201

/M03.5	/T01.3	/T01.5	/T01.3	/T01.4	/G02.3	/T01.5	/T01.5	/G02.4				
/M03.6	/T01.5		/T01.5	/T01.5	/G02.4							
/M01.3	/M01.7	/M01.7	/Q07.7			/R01.8						

4 AUXILIARY CONTACTOR MANUF.: Schneider Electric TYPE CA3-KN31 BD3
PO NO.: CA3-KN31 BD3
RATED VOLTAGE : 24VDC :



TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER
C.B. OPEN		+S1A.R	-K11A
C.B. CLOSED		+S1A.R	-K11E
C.B. OPEN		+S1A.R	-K12A
C.B. CLOSED		+S1A.R	-K12E

/M04.5	/M01.6	/R01.3										
/M04.6	/M01.7	/R01.3	/M01.7	/M04.7								
/M04.6	/M02.6	/R01.5										
/M04.7	/M02.7	/R01.5	/M02.7	/M04.8								

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22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL
04

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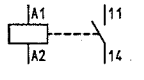
STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
2	RELAY	MANUF. : ORD.NR. :	TYPE:			

RATED VOLTAGE : 220VDC :

TECHNICAL COMPONENTS	TYPE	ORDERING NUMBER

APPLICATION	SETTING VALUES	LOCATION	ITEM DESIGNATION													
		+S1A.R	-K200		/P01.6	/P01.6										
		+S1B.R	-K200		/P02.7	/P02.7										

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NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
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50.3023.01.A3.741.226 S =L04 / Z1K2
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STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	MEAS. UNIT BIMETALLIC AMMETER SCALE: 20% OVERLOAD MEASUREMENT VARIABLE: 1A : TECHNICAL COMPONENTS TYP ORDER NO	MANUF.: WEIGEL TYPE BiQ72K PO NO.: TRANSFORMER CONNECTION 1000A/1A			17 A 18		
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	CURRENT MEAS L2		+S1A.T	-P402	/S01.6		
2	MEAS. UNIT MOVING-IRON AMMETER SCALE: 100 % OVERLOAD MEASUREMENT VARIABLE: 1A : TECHNICAL COMPONENTS TYP ORDER NO	MANUF.: WEIGEL TYPE EQ72K PO NO.: TRANSFORMER CONNECTION 1000A/1A			17 A 18		
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER			
	CURRENT MEAS L1		+S1A.T	-P401	/S01.5		
	CURRENT MEAS L3		+S1A.T	-P403	/S01.7		

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22.12.2006 HJ0115ND =L04 Z1P1 ADAN

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z1P1

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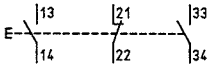
STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK

2 PB MANUF.: Schneider Electric TYPE HARMONY Style 5
PO NO.:

PUSH-BUTTON OFF RED-AND-WHITE CIRCLE

SWITCHING CONTACTS : 2S,10 CONTACT SEQUENCE :

	TECHNICAL COMPONENTS	TYP	ORDER NO
1	RED-AND-WHITE CIRCLE S071457	ZB5-AA432	ZB5-AA432
1	FIXING FLANGE S071460	ZB5-AZ009	ZB5-AZ009
1	AUXIL SWITCH (NO) S071461	1S (NO)	ZBE-101
1	AUXIL SWITCH (NC) S071462	1O (NC)	ZBE-102



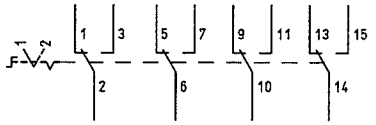
APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER														
CIRCUIT-BREAKER OFF		+S1A.T	-S01A		/M01.6	/R01.3											
CIRCUIT-BREAKER OFF		+S1A.T	-S02A		/M02.6	/R01.5											

1 SWITCH MANUF.: SONTHEIMER TYPE WS4/8ZM/NS-TI.0511+T
PO NO.: WS4/8ZM/NS

INSCRIPTION:
1=LOCAL 2=REMOTE

SWITCHING CONTACTS : 4 POSITIONS : 2

TECHNICAL COMPONENTS	TYP	ORDER NO



APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER														
DOUBLE THROW SWITCH LOCAL/OFF/REMOTE		+S1A.T	-S200		/M01.6	/M02.6	/V01.7	/Q04.6									

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22.12.2006 HJ0115ND =L04 Z1S1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev. .	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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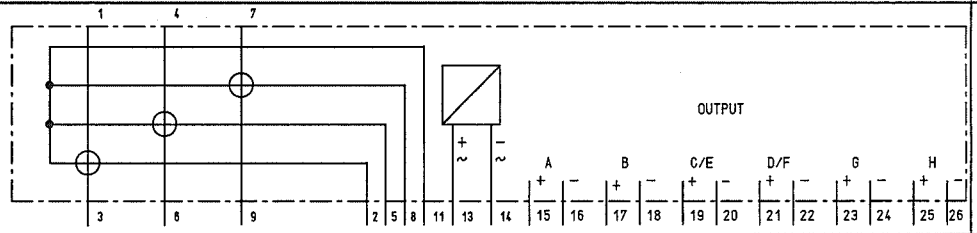
LIST OF EQUIPMENT
PANEL
04

50.3023.01.A3.741 .226 S =L04 / Z1S1

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 48 98Sh.

STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION SETTINGS MOUNTING APPA. DESIG.	MANUFACTURER, TYPE, ORDERING DATA	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	TRANSDUCER PROGRAMMIERBARER MULTI-MESSUMFORMER INPUT : OUTPUT : TECHNICAL COMPONENTS TYP ORDER NO	MANUF.: GOSSEN PO NO.: TYPE SINEAX DME424/442		

APPLICATION		SETTINGS	MOUNTING	BTN IDENTIFIER
MULTIFUNCTION	CONVERTER		+S1A.R	-U401

/S01.2	/S01.3	/S01.3		/T01.6	/M01.2	/Q06.4	/Q06.3	/Q06.4	/Q06.5	/Q06.5	/Q06.5	

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D0097810 2
22.12.2006 HJ0115ND =L04 Z1U1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z1U1
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 49 98Sh.

STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
6	DIODE MANUF.: PO NO.: TYPE SENSOR-DIODE FÜR ILIS : : TECHNICAL COMPONENTS TYP ORDER NO				SW WS		

APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
		+S2A	-B311		/N01.3
		+S2A	-B312		/N01.4
		+S2A	-B313		/N01.5
		+S2B	-B311		/N02.3
		+S2B	-B312		/N02.4
		+S2B	-B313		/N02.5

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22.12.2006 HJ0115MD
=L04
Z2B1
ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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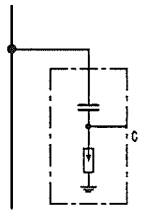
LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z2B1
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 50 98Sh.

STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
3	IVIS POST INSULATOR	MANUF.: AREVA/SW PO NO.:	TYPE IVIS				

TECHNICAL COMPONENTS	TYP	ORDER NO

	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER													
	CAP. TAPPING		+S2A	-CL1			/T02.2										
	CAP. TAPPING		+S2A	-CL2			/T02.4										
	CAP. TAPPING		+S2A	-CL3			/T02.6										

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22.12.2006 HJ0115ND
=L04
Z2C1
ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL
04

50.3023.01.A3.741.226 S =L04
/ Z2C1
Typ: 09
MOTOR FEEDER
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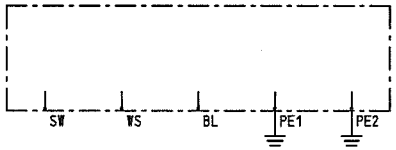
Stock-tity	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	INDICATOR INTELLIGENT VOLT INFORMATION SYSTEM	MANUF.: AREVA Sachsenwerk TYPE IVIS PO NO.:					

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER
IVIS		+S2A	-P100



/T02.3	/T02.5	/T02.7	/T02.5	/T02.5

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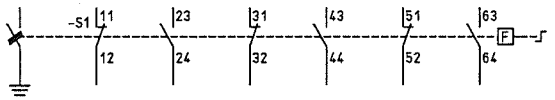
FELD 04
D0978102
22.12.2006 HJ0115ND =L04 Z2P1 ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	LIST OF EQUIPMENT	50.3023.01.A3.741.226	S	=L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01					/ Z2P1
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL 04	Typ: 09 MOTOR FEEDER	D009781.02.604-3.AHA	Sheet 52 98Sh.
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:			

STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	EARTHING SWITCH	MANUF.: AREVA PO NO.:	TYPE KGE 80/24-2			

TECHNICAL COMPONENTS	TYP	ORDER NO

	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER												
	EARTHING SWITCH		+S2A	-Q8			/Q01.7	/Q01.8	/Q02.6	/Q02.7	/P02.6	/V01.6				

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D0978102
22.12.2006 HJ0115MD
=L04
Z2Q1
ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
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04

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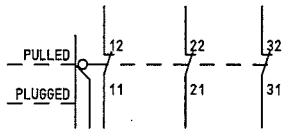
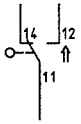
/ Z2Q1
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 53
98Sh.

STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)			REMARK
2	AUXILIARY SWITCH PLUG PULLED	MANUF.: AREVA PO NO.: TYPE							
	TECHNICAL COMPONENTS	TYP	ORDER NO						
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER					
	PLUG PULLED		+S2A	-S7		/M03.8	/P01.3	/P02.6	
	PLUG PULLED		+S2B	-S7		/M03.7	/P02.3	/P01.5	
1	ANSTOSSSCHALTER KURBEL GESTECKT KABELERDER	MANUF.: AREVA PO NO.: TYPE							
	TECHNICAL COMPONENTS	TYP	ORDER NO						
	APPLICATION	SETTINGS	MOUNTING	BTN IDENTIFIER					
	CRANK INSERTED EARTHING SWITCH		+S2A	-S81		/P02.4			

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FELD 04 D0978102

22.12.2006 HJ0115ND =L04 Z2S1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:		iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA			
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01			
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80			

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LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z2S1

Typ: 09 MOTOR FEEDER

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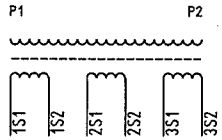
STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
3	CURR.TRANSF. 1000/1/1/1A	MANUF.: AEG PO NO.:	TYPE CT12			

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER													
CURR.TRANSF. L1		+S2A	-T1L1	/S01.2	/S01.5	/S02.1										
CURR.TRANSF. L2		+S2A	-T1L2	/S01.3	/S01.6	/S02.2										
CURR.TRANSF. L3		+S2A	-T1L3	/S01.3	/S01.7	/S02.2										

4	CABLE-TYPE CT 60/1A	MANUF.: AEG PO NO.:	TYPE RKT 250/160			

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER													
CABLE-TYPE CT		+S2A	-T91	/S02.5												
CABLE-TYPE CT		+S2A	-T92	/S02.6												
CABLE-TYPE CT		+S2A	-T93	/S02.6												
CABLE-TYPE CT		+S2A	-T94	/S02.7												

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22.12.2006 HJ0115ND =L04 Z2T1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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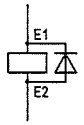
LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z2T1
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 55 98Sh.

STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	SPERRMAGNET MANUF.: AREVA PO NO.: TYPE 220VDC SPERRMAGNET AM ERDER					
	TECHNICAL COMPONENTS	TYP	ORDER NO			
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
	RELEASE EARTHING SWITCH		+S2A	-Y8	/M03.3	

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FELD 04
D0978102
22.12.2006 HJ0115ND =L04 Z2Y1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL 04

50.3023.01.A3.741.226 S =L04 / Z2Y1
Typ: 09 MOTOR FEEDER
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STUCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	SETTINGS	MANUFACTURER, TYPE, ORDERING DATA MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	CIRCUIT-BREAKER MANUF.: AREVA PO NO.: TYPE ECA 12-50-12-21				REFERENCES FOR GROUP REPRES. IN CIRCUIT DIAGRAM REFERENCES TO SEP. DOCUMENTS WITH DETAILS OF REPRES. REFERENCES FOR REPRES.OF APPLIANCE CONNECTIONS	
	TECHNICAL COMPONENTS TYP ORDER NO					
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
	CIRCUIT-BREAKER		+S3A	-Q01	/Z302.1 /Z302.1	
	/Q01.3 /G00.3 /L01.2 /M01.5 /M03.4 /Q01.2 /Q02.3 /Q04.2 /Q07.1 /R01.2 /V01.2					
1	MANUF.: AREVA PO NO.: TYPE AUXILIARY SWITCH 10_POL				TEST POS. 11 21 31 41 51 61 13 23 33 43 SERVICE-POSITION 12 22 32 42 52 62 14 24 34 44	
	TECHNICAL COMPONENTS TYP ORDER NO					
	APPLICATION	SETTINGS	MOUNTING	BTM IDENTIFIER		
	AUXILIARY SWITCH		+S3A	-Q1	/Q01.3 /Q02.5 /P01.2 /P02.6 /V01.4 /V01.5 /Q01.3 /Q02.5 /Q07.4 /G00.4	

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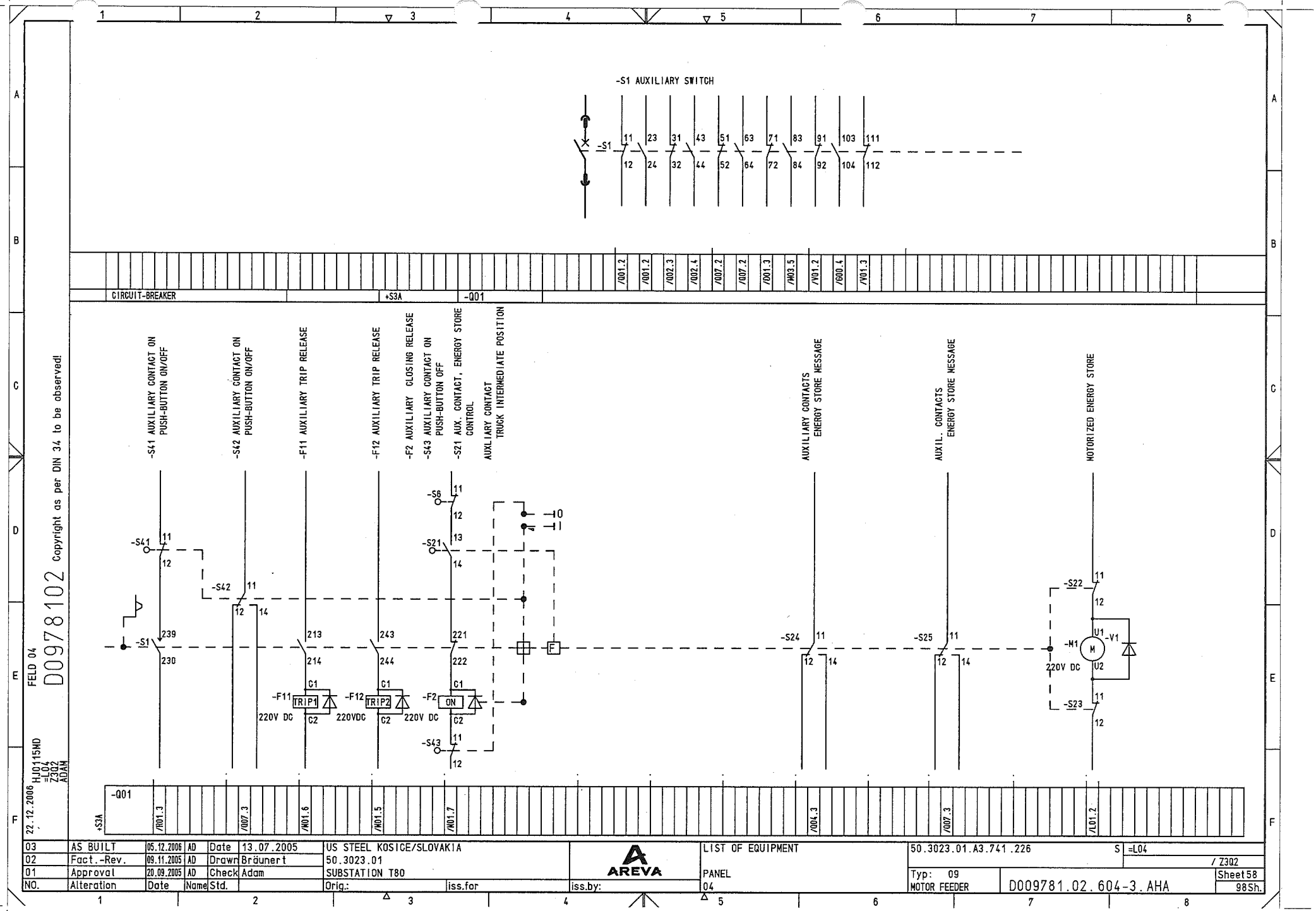
FELD 04 D0097810 2

22.12.2006 HJ0115ND =L04 Z301 ADAM

NO.		Date	Name						
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	LIST OF EQUIPMENT	50.3023.01.A3.741.226 S =L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01			/ Z3Q1
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL 04	Typ: 09 MOTOR FEEDER D009781.02.604-3.AHA Sheet 57 98Sh.
NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:	



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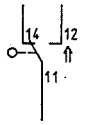
22.12.2006 HJ0115MD L04 Z302 ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	LIST OF EQUIPMENT	50.3023.01.A3.741.226	S	=L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01					/ Z302
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL 04	Typ: 09 MOTOR FEEDER	D009781.02.604-3.AHA	Sheet 58 98Sh.
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:			

STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM WITH REFERENCES TO DETAILS REFERENCE TO INDIVIDUAL TREATMENT (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
3	ANSTOßSCHALTER	MANUF.: AREVA PO NO.:		TYPE		

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER	
CRANK INSERTED	SLIDE-IN MODULE		+S3A	-S61	/P01.2
CRANK INSERTED	SLIDE-IN MODULE		+S3A	-S62	/P02.6
CRANK INSERTED	SLIDE-IN MODULE		+S3A	-S63	/V01.5

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ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

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LIST OF EQUIPMENT
PANEL
04

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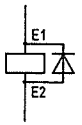
STOCK-TITY	DESCRIPTION, DESIGN, TECHNICAL DATA APPLICATION	MANUFACTURER, TYPE, ORDERING DATA SETTINGS	MOUNTING	APPA. DESIG.	APPARATUS SYMBOL DIAGRAM REFERENCE TO INDIVIDUAL TREATMENT	WITH REFERENCES TO DETAILS (CIRCUIT DIAGRAM, SHEET NO., CIRCUIT NO.)	REMARK
1	SPERRMAGNET SPERRMAGNET AN SCHALTWAGEN : 220VDC	MANUF.: AREVA PO NO.:		TYPE			

TECHNICAL COMPONENTS	TYP	ORDER NO

APPLICATION		SETTINGS	MOUNTING	BTM IDENTIFIER
RELEASE	SLIDE-IN MODULE		+S3A	-Y1

/P01.4

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22.12.2006 HJ0115MD =L04 Z3Y1 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005			
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert			
01	Approval	20.09.2005	AD	Check	Adam			

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50.3023.01
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LIST OF EQUIPMENT
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04

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NO	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X0

CABLE MATERIAL				⌀	COLOR
STANDARD:		H07V-K	1.5MM2		SW
POS.:	0	H05V-K	1.0MM2		SW
	2	H07V-K	2.5MM2		SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL		
/D01.2													2	=L03	+S1A.R -X0	2
/D01.7													2	=L05	+S1A.R -X0	1
/D01.2													2	=L03	+S1A.R -X0	4
/D01.7													2	=L05	+S1A.R -X0	3
/G00.2													2	=L03	+S1A.R -X0	6
/G00.7													2	=L05	+S1A.R -X0	5
/G00.6															-X04	A01
/G00.2													2	=L03	+S1A.R -X0	8
/G00.7													2	=L05	+S1A.R -X0	7A
/G00.2													2	=L03	+S1A.R -X0	10
/G00.7													2	=L05	+S1A.R -X0	9
/G01.2													2	=L03	+S1A.R -X0	12
/G01.7													2	=L05	+S1A.R -X0	11
/G01.2													2	=L03	+S1A.R -X0	14
/G01.7													2	=L05	+S1A.R -X0	13
/G01.2													2	=L03	+S1A.R -X0	16
/G01.7													2	=L05	+S1A.R -X0	15
/G01.2													2	=L03	+S1A.R -X0	18
/G01.7													2	=L05	+S1A.R -X0	17
/P01.1													2	=L03	+S1A.R -X0	022
/P01.7													2	=L05	+S1A.R -X0	021
/P01.1													2	=L03	+S1A.R -X0	024
/P01.7													2	=L05	+S1A.R -X0	023
/P01.1													2	=L03	+S1A.R -X0	028
/P01.3																
/P01.2																
/P01.7													2	=L05	+S1A.R -X0	025
/P01.1													2	=L03	+S1A.R -X0	030
/P01.7													2	=L05	+S1A.R -X0	029

POT	NO
AC230V.L1	1
AC230V.L1	2
N	3
N	4
CBF+	5
CBF+	6
	7
CBF1'	7A
CBF1'	8
CBF2'	9
CBF2'	10
DC220V.L+	11
DC220V.L+	12
DC220V.L-	13
DC220V.L-	14
03L+	15
03L+	16
03L-	17
03L-	18
214L+	021
214L+	022
214L-	023
214L-	024
	025
	026
BUSBAR ES.RELEASE	027
BUSBAR ES.RELEASE	028
DRAWG.UNIT RELEASE	029
DRAWG.UNIT RELEASE	030

DESTINAT. DESIG. INTERN			CORES/ LINE	REMARK
-K203	13	Q		
-K203	34			
-X9	919			
-X04	A02			
-F102	1	Q	2	
-F102	3	Q	2	
-F203	1			
-F203	3			
-X01	D14		0	
-K200	A2		0	
-X01	C05		0	
+S2A -S7	22			
-X01	C06		0	
+S2A -S7	21			
+S1B.R -X9	906			

Copyright as per DIN 34 to be observed!

FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.
03	AS BUILT	05.12.2006	AD	Date 13.07.2005
02	Fact.-Rev.	09.11.2005	AD	Drawn Bräunert
01	Approval	20.09.2005	AD	Check Adam

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80
Orig.: Iss.for
Iss.by:

AREVA

TERMINAL DIAGRAM
PANEL 04

50.3023.01.A3.741.226 V
=L04
+S1A.R / K01

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 61 98Sh.

CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X0

CABLE MATERIAL			⌀	COLOR
STANDARD:		H07V-K	1.5MM2	SW
POS.:	2	H07V-K	2.5MM2	SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL			POT	NO	DESTINAT. DESIG. INTERN			CORES/LINE	REMARK
/X01.2													2	=L03	+S1A.R -X0	052	TXD+	051	-A100	-X6	1		
/X01.7													2	=L05	+S1A.R -X0	051	TXD+	052					
/X01.2													2	=L03	+S1A.R -X0	054	TXD-	053	-A100	-X6	2		
/X01.7													2	=L05	+S1A.R -X0	053	TXD-	054					
/G02.2													2	=L03	+S1A.R -X0	062	04L+	061					
/G02.7													2	=L05	+S1A.R -X0	061	04L+	062					
/G02.2													2	=L03	+S1A.R -X0	064	04L-	063	+S1A.T -F301	-X1	16		
/G02.7													2	=L05	+S1A.R -X0	063	04L-	064					
/G02.2													2	=L03	+S1A.R -X0	066	AUTF SS1	065	-K451A		53		
/G02.7													2	=L05	+S1A.R -X0	065	AUTF SS1	066					
/G02.2													2	=L03	+S1A.R -X0	068	AUTF SS2	067	-K451B		53		
/G02.7													2	=L05	+S1A.R -X0	067	AUTF SS2	068					
/N01.2													2	=L03	+S1A.R -X0	092	ACR+	091	-X1		179		
/N01.7													2	=L05	+S1A.R -X0	091	ACR+	092	-X04		B01		
/N01.2													2	=L03	+S1A.R -X0	094	ACR-	093	-F310		2		
/N01.7													2	=L05	+S1A.R -X0	093	ACR-	094	-X04		B04		
/N01.2													2	=L03	+S1A.R -X0	096	TRANSFER TRIPPING	095	-F310		6		
/N01.7													2	=L05	+S1A.R -X0	095	TRANSFER TRIPPING	096	-X04		B02		
/N01.2													2	=L03	+S1A.R -X0	098	I>	097	-X1		177		
/N01.7													2	=L05	+S1A.R -X0	097	I>	098	-X04		B03		
/N01.2													2	=L03	+S1A.R -X0	100	SPARE	099					
/N01.7													2	=L05	+S1A.R -X0	099	SPARE	100					
/T01.2													2	=L03	+S1A.R -X0	602	SS1 L1	601	-K451A		13		
/T01.8													2	=L05	+S1A.R -X0	601	SS1 L1	602					
/T01.2													2	=L03	+S1A.R -X0	604	SS1 L2	603	-K451A		33		
/T01.8													2	=L05	+S1A.R -X0	603	SS1 L2	604					
/T01.2													2	=L03	+S1A.R -X0	606	SS1 L3	605	-K451A		43		
/T01.8													2	=L05	+S1A.R -X0	605	SS1 L3	606					
/T01.2													2	=L03	+S1A.R -X0	608	N	607	-X6		612		
/T01.8													2	=L05	+S1A.R -X0	607	N	608					
/T01.2													2	=L03	+S1A.R -X0	610	SS2 L1	609	-K451B		13		
/T01.8													2	=L05	+S1A.R -X0	609	SS2 L1	610					
/T01.2													2	=L03	+S1A.R -X0	612	SS2 L2	611	-K451B		33		
/T01.8													2	=L05	+S1A.R -X0	611	SS2 L2	612					

Copyright as per DIN 34 to be observed!

FELD 04

D0978102

22.12.2006

NO.	Alteration	Date	Name
03	AS BUILT	05.12.2006	AD
02	Fact.-Rev.	09.11.2005	AD
01	Approval	20.09.2005	AD

Std.

Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	
Drawn	Bräunert	50.3023.01	
Check	Adam	SUBSTATION T80	
Orig.:		iss.for	iss.by:

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K02

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 62 98Sh.

NO	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X0

CABLE MATERIAL				⌀	COLOR
STANDARD:		H07V-K	1.5MM2		SW
POS.:	2	H07V-K	2.5MM2		SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL		
/T01.2													2	=L03	+S1A.R -X0	614
/T01.8													2	=L05	+S1A.R -X0	613
/T01.2													2	=L03	+S1A.R -X0	616
/T01.8													2	=L05	+S1A.R -X0	615

POT	NO
SS2 L3	613
SS2 L3	614
N	615
N	616

DESTINAT. DESIG. INTERN		CORES/ LINE	REMARK
-K451B	43		
-X6	612		

Copyright as per DIN 34 to be observed!

FELD 04

D0978102

22.12.2006

NO.	Alteration	Date	Name
03	AS BUILT	05.12.2006	AD
02	Fact.-Rev.	09.11.2005	AD
01	Approval	20.09.2005	AD

Std. | Date 13.07.2005 | Drawn Bräunert | Check Adam

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

Orig.: | Iss.for | Iss.by:

AREVA

TERMINAL DIAGRAM
PANEL 04

50.3023.01.A3.741.226 V | =L04 | +S1A.R / K03

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 63 98Sh.

NO	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X1

CABLE MATERIAL				⌀	COLOR
STANDARD:		H07V-K	1.5MM2		SW
POS.:	0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE		DESTINAT. DESIG.	EXTERNAL	
/G01.2															-F111		2
/G01.2															-F111		4
/G01.3															-F121		2
/G01.3															-F121		4
/G01.5														Q	+S1A.T -F301	-X1	13
/G01.5														Q	+S1A.T -F301	-X1	14
/G01.6															-F105		2
/G01.7															-F105		4
/M01.2															-U401		13
/M03.4																	
/M01.3															-K501		13
/M05.4															-X8		870
/M01.5														Q	+S1A.T -F301	-X3	34
/M03.5																	
/M02.3															-K501		33
/M01.8															=L021 S1.R -X2		236
/M03.8															+S2A -S7		12
/M04.2														Q	-A100	-X20	11
/G01.4															-F102		4
/M01.3													0		-K201		A2
/M01.6																	
/M01.8															=L021 S1.R -X2		241
/M02.4																	
/M02.6															-X04		A07
/M02.6																	
/M02.8																	
/M03.3																	
/M03.5															-X3		308
/G02.3														Q	-K451A		54
/M01.3															-K501		14
/M01.3															-F310		8
/M01.5													0		+S1A.T -F301	-X3	35
/M01.6													0		+S1A.T -S01A		14
/M01.6														Q	-K01A		14

POT	NO
111L+	101
111L-	102
121L+	103
121L-	104
103L+	105
103L-	106
105L+	107
105L-	108
102L+	111
102L+	112
102L+	113
102L+	114
102L+	115
102L+	116
102L+	117
102L+	118
102L+	119
102L+	120
102L-	121
102L-	122
102L-	123
102L-	124
102L-	125
102L-	126
102L-	127
102L-	128
102L-	129
102L-	130
	131
	132
	133
	134
	135
	136

DESTINAT. DESIG. INTERN			CORES/ LINE	REMARK
-X01		A01	0	
-X01		A02	0	
-X04		A03		
-X04		A04		
-F103		2		
-F103		4		
-X1		143		
-K501		A2		
-F102		2		
-K72		43		
+S1A.T -F		33		
-F310		7		
-X04		A11		
-X01		B07	0	
-F310		11		
-X04		A09		
-X3		301		
-U401		14		
-X01		C02	0	
-X01		A04	0	
-K202		A2		
-X04		C10		
+S2A -Y8		E2		
-K01A		A2	Q	
+S1A.T -F301	-X1	15		
+S1A.T -F		35	0	
-K201		A1		
-X01		A03	0	

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FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.			
03	AS BUILT	05.12.2006	AD	Date	13.07.2005		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert		
01	Approval	20.09.2005	AD	Check	Adam		

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80
Orig.: | Iss.for | Iss.by:

AREVA

TERMINAL DIAGRAM
PANEL
04

50.3023.01.A3.741.226 V
=L04
+S1A.R / K10

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 64
98Sh.

NU	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X1

CABLE MATERIAL				⌀	COLOR
STANDARD:		H07V-K	1.5MM2		SW
POS.:	0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL			POT	NO	DESTINAT. DESIG. INTERN			CORES/ LINE	REMARK
/M01.7																		137	-K201		22		
/M01.7																		138	-X01		A05		0
/M01.6														+S1A.T -S200		3		139	-K01A		13	Q	
/M01.8														=L021 S1.R -X2		237		140	-K01E		14	Q	
/M01.8														=L021 S1.R -X2		239		141					
/M01.7																		142	-X01		A06		0
/M01.2														=. +. -X.		..	105L+	143	-X1		107		
/M01.2														=. +. -X.		..		144	-K501		A1		
/M05.4														-X8		879		145	-X01		C01		0
/M05.4														-F310		12		146	-X04		C09		
/M02.2														+S1A.T -F		32		151	-K501		34		
/M02.4														-K202		A1		152	-X04		A10		
/M02.5														+S1A.T -F301	-X3	33		153					
/M02.6														+S1A.T -S02A		14		154					
/M02.6																		155	-X04		A05		
/M02.6																		156	-K02A		14	Q	
/M02.7																		157	-K202		22		
/M02.7																		158	-X04		A06		
/M02.6														+S1A.T -S200		7		159	-K02A		13	Q	
/M02.8														=L021 S1.R -X2		238		160	-K02E		14	Q	
/M02.8														=L021 S1.R -X2		240		161					
/M02.7																		162	-X04		A08		
/M03.4																		169					
/M03.3																		170	+S2A -Y8		E1		
/M03.3																		171	-X04		A12		
/M03.4																		172	-K72		44		
/M03.5														-K451A		A1		173	-X01		B08		0
/M03.6														-K451B		A1		174	-X04		A14		
/M03.7														-K72		A1		175	-X04		A15		
/M03.8														+S2A -S7		11		176	-K71		A1		
/N01.4														-X0		097	I>	177	-F310		4		
/N01.5														+S1A.T -F301	-X3	27	I>	178					
/N01.3														-X0		091	ACR+	179	-F310		1		
/N01.5																	ACR+	180	+S1A.T -F301	-X3	28		

Copyright as per DIN 34 to be observed!

FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K11

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 65 98Sh.

No	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X1

CABLE MATERIAL			Ø	COLOR
STANDARD:	H07V-K	1.5MM2		SW
POS.: 0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL			
/P02.4														+S2A	-S81		11
/P02.4														+S2A	-S81		14
/P02.6													0	+S2A	-Q8	-S1	52
/P02.6														+S2A	-Q8	-S1	51

POT	NO
	181
	182
	183
DRAWG.UNIT RELEASE	184

DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
-X04	C02		
-X9	918		
-X9	904		
-X04	C01		

Copyright as per DIN 34 to be observed!

FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K12

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 66 98Sh.

NU	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X3

CABLE MATERIAL			Ø	COLOR
STANDARD:	H07V-K	1.5MM2		SW
POS.: 0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL	
/Q01.2															
/Q01.2															
/Q01.3															
/Q01.4															
/Q01.5															
/Q01.7															
/Q01.7														-X4	401
/M03.7														-X1	130
/Q01.3														+S1A.T -H011	0
/Q01.5														+S1A.T -H02	0
/Q01.7														+S1A.T -H8	0
/Q01.8															
/Q01.2														+S1A.T -H01	1
/Q01.2														+S1A.T -H01	2
/Q01.3														+S1A.T -H011	1
/Q01.4															
/Q01.3														+S1A.T -H011	2
/Q01.5														+S1A.T -H02	1
/Q01.5														+S1A.T -H02	2
/Q01.5														+S1A.T -H021	1
/Q01.7															
/Q01.6														+S1A.T -H021	2
/Q01.7														+S1A.T -H8	1
/Q01.8														+S1A.T -H8	2

POT	NO
102L+	301
102L+	302
102L+	303
102L+	304
102L+	305
102L+	306
102L+	307
102L-	308
102L-	309
102L-	310
102L-	311
102L-	312
	321
	322
	323
	324
	325
	326
	327
	328
	329
	330
	331
	332

DESTINAT. DESIG. INTERN				CORES/ LINE	REMARK
-X1		120			
-X01		A12		0	
-X01		C15		0	
-K71		13			
-X04		D01			
-K72		13			
+S2A	-Q8 -S1	11	Q		
+S1A.T	-H01	0			
+S1A.T	-H021	0			
-X4		405			
-X01		A13		0	
-X01		A14		0	
-X01		C16		0	
-K71		14			
-X01		D01		0	
-X04		D02			
-X04		D03			
-X04		D04			
-K72		14			
-X04		D05			
+S2A	-Q8 -S1	12			
+S2A	-Q8 -S1	24			

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FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K30

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 67 98 Sh.

NU	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X4

CABLE MATERIAL	⌀	COLOR
STANDARD: H07V-K	1.5MM2	SW
POS.: 0 H05V-K	1.0MM2	SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE		DESTINAT. DESIG. EXTERNAL		POT	NO	DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
/Q07.7															-K201	33	102L+	401	-X3	307		
/Q07.7														Q	-K01E	43	102L+	402	-K100	A1		
/R01.3														Q	+S1A.T -S01A	21	102L+	403				
/R01.8																	102L+	404				
/Q07.7															-X3	312	102L-	405	-X8	880		
/R01.2																	102L-	406	-K100	A2		
/R01.4																	102L-	407				
/R01.8																	102L-	408				
/R01.3															+S1A.T -S01A	22		409	-K01A	21		
/R01.3															-K11E	22		410	-X01	A10	0	
/R01.5															+S1A.T -S02A	22		411	-K02A	21		
/R01.5															-K12E	22		412	-X04	C03		
/R01.3															-K100	E1		413	-X01	A11	0	
/R01.5																		414	-X04	C04		
/R01.6																		415				
/R01.6																		416	-F102	22 Q		
/R01.6																		417	-F102	21 Q		
/R01.6																		418				
/R01.8															=L021 +S1.R -X2	222		419	-K201	61		
/R01.8															=L021 +S1.R -X2	223		420	-K201	62		

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FELD 04 D0097810 2

22.12.2006

NO.									
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	TERMINAL DIAGRAM	50.3023.01.A3.741.226 V	=L04
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01				+S1A.R / K40
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL 04	Typ: 09 MOTOR FEEDER	D009781.02.604-3.AHA Sheet 68 98Sh.
NO.	Alteration	Date		Name	Std.	Orig.:	iss.for	iss.by:		

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X5

CABLE MATERIAL	⌀	COLOR
STANDARD: H07V-K	2.5MM2	SW

TERM.TYPE

STANDARD: URTK/S

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL		POT NO	DESTINAT. DESIG. INTERN				CORES/LINE	REMARK
/S01.2																501	+S2A	-T1L1		1S2		
/S01.2																502	+S2A	-T1L1		1S1		
/S01.2																503		-U401		1		
/S01.3																504	+S2A	-T1L2		1S2		
/S01.3																505	+S2A	-T1L2		1S1		
/S01.3																506		-U401		4		
/S01.3														-X5	510	507	+S2A	-T1L3		1S2		
/S01.3																508	+S2A	-T1L3		1S1		
/S01.3																509		-U401		7		
/S01.4														-X5	507	510		-XPE		PE		
/S01.4																511		-U401		3	Q	
/S01.5																521	+S2A	-T1L1		2S2		
/S01.5																522	+S2A	-T1L1		2S1		
/S01.5																523	+S1A.T	-P401		17		
/S01.6																524	+S2A	-T1L2		2S2		
/S01.6																525	+S2A	-T1L2		2S1		
/S01.6																526	+S1A.T	-P402		17		
/S01.7														-X5	530	527	+S2A	-T1L3		2S2		
/S01.7																528	+S2A	-T1L3		2S1		
/S01.7																529	+S1A.T	-P403		17		
/S01.7														-X5	527	530		-XPE		PE		
/S01.7														+S1A.T -P403	18	531	+S1A.T	-P402		18		
/S01.5														+S1A.T -P401	18	532						
/S02.2																541	+S2A	-T1L1		3S2		
/S02.1																542	+S2A	-T1L1		3S1		
/S02.3														+WR -X610	122	543	+S1A.T	-F301	-X1	1		
/S02.2																544	+S2A	-T1L2		3S2		
/S02.2																545	+S2A	-T1L2		3S1		
/S02.3														+WR -X610	222	546	+S1A.T	-F301	-X1	3		
/S02.3														+S2A -T1L3	3S2	547						
/S02.2																548	+S2A	-T1L3		3S1		
/S02.4														+WR -X610	322	549	+S1A.T	-F301	-X1	5		
/S02.4														+WR -X610	121	550	+WR	-X610		221		
/S02.4														+WR -X610	321	551	+S1A.T	-F301	-X1	2	Q	

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FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V =L04 +S1A.R / K50

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 69 98Sh.

NO	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X5

CABLE MATERIAL	⌀	COLOR	TERM.TYPE
STANDARD: H07V-K	2.5MM2	SW	STANDARD: URTK/S

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL			POT NO	DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
/S02.6														-XPE		PE	561	+S2A -T91	S2		
/S02.5														+S1A.T -F301	-X1	7	562	+S2A -T91	S1		
/S02.6																	563	+S2A -T92	S2		
/S02.6																	564	+S2A -T92	S1		
/S02.7																	565	+S2A -T93	S2		
/S02.6																	566	+S2A -T93	S1		
/S02.7														+S1A.T -F301	-X1	8	567	+S2A -T94	S2		
/S02.7																	568	+S2A -T94	S1		

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FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04

+S1A.R / K51

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 70 98 Sh.

NU	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X6

CABLE MATERIAL	⌀	COLOR	TERM.TYPE
STANDARD: H07V-K	1.5MM2	SW	STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG.	EXTERNAL	
/T01.3														+S1A.T -F301	-X1	9
/T01.6																
/T01.7																
/T01.3														+S1A.T -F301	-X1	10
/T01.6																
/T01.7																
/T01.4														+S1A.T -F301	-X1	11
/T01.6																
/T01.7																
/T01.4														+S1A.T -F301	-X1	12
/T01.7																
/T01.7														-X0		607
/T01.7																
/T01.7																
/T01.7																

POT	NO
L1	601
L1	602
L1	603
L2	604
L2	605
L2	606
L3	607
L3	608
L3	609
N	610
N	611
N	612
	614
	615
	616

DESTINAT. DESIG. INTERN			CORES/LINE	REMARK
-K451A	14	Q		
-U401	2			
-K451A	34	Q		
-U401	5			
-K451A	44	Q		
-U401	8			
-U401	11			
-X0	615			

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:		iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA			
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01			
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80			

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V =L04 +S1A.R / K60

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet71 98Sh.

NU	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X8

CABLE MATERIAL			Ø	COLOR
STANDARD:		H07V-K 1.5MM2		SW
POS.:	0	H05V-K 1.0MM2		SW

TERM.TYPE

STANDARD: UDMTK5-P/P

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL		
/Q02.2													0	-F203		2
/Q02.3																
/Q02.5																
/Q02.6																
/Q02.6																
/Q03.4																
/Q03.6																
/Q04.2																
/Q04.3																
/Q04.6																
/Q05.2																
/Q05.3																
/Q05.7														-A100	-X11	38
/Q02.2														-F203		4
/Q02.3																
/Q02.6																
/Q04.2																
/Q05.2																
/Q05.7																
/Q05.4																
/Q02.3														-A100	-X10	1
/Q02.4														-A100	-X10	2
/Q02.5														-A100	-X10	5
/Q02.6																
/Q02.5														-A100	-X10	6
/Q02.6														-A100	-X10	31
/Q02.7														-A100	-X10	32
/Q03.4														-A100	-X10	3
/Q03.4														-A100	-X10	4
/Q03.5														-A100	-X10	7
/Q03.6																
/Q03.5														-A100	-X10	8
/Q04.2														-A100	-X10	33
/Q04.3														-A100	-X10	34

POT		NO
03L+		801
03L+		802
03L+		803
03L+		804
03L+		805
03L+		806
03L+		807
03L+		808
03L+		809
03L+		810
03L+		811
03L+		812
03L+		813
03L-		814
03L-		815
03L-		816
03L-		817
03L-		818
03L-		819
03L-		820
		821
		822
		823
		824
		825
		826
		827
		828
		829
		830
		831
		832
		833
		834

DESTINAT. DESIG. INTERN					CORES/ LINE	REMARK
	-A100	-X1	1			
	-X01		A15		0	
	-X01		D02		0	
	-K71		33			
+S2A	-Q8	-S1	31	Q		
	-X04		D06			
	-K72		33			
	-F111		12	Q		
	-X01		A07		0	
+S1A.T	-S200		13			
	-F310		9	Q		
+S1A.T	-F301	-X3	20	Q		
	-F102		12	Q		
	-A100	-X1	2			
	-A100	-X10	9			
	-A100	-X11	9			
	-K203		A2			
	-X01		A16		0	
	-X01		B01		0	
	-X01		D03		0	
	-K71		34			
	-X01		D04		0	
+S2A	-Q8	-S1	32			
+S2A	-Q8	-S1	44			
	-X04		D07			
	-X04		D08			
	-X04		D09			
	-K72		34			
	-X04		D10			
	-F111		11	Q		
	-X01		A08		0	

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FELD 04

D0978102

22.12.2006

NO.	Alteration	Date	Name	Std.
03	AS BUILT	05.12.2006	AD	
02	Fact.-Rev.	09.11.2005	AD	
01	Approval	20.09.2005	AD	

Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	
Drawn	Bräunert	50.3023.01	
Check	Adam	SUBSTATION T80	
Orig.:		Iss.for	Iss.by:

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K80

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet72 98Sh.

NO	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X8

CABLE MATERIAL				⌀	COLOR
STANDARD:		H07V-K	1.5MM2		SW
POS.:	0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UDMTK5-P/P

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG.	EXTERNAL		POT	NO	DESTINAT. DESIG.	INTERN		CORES/ LINE	REMARK
/Q04.4																		835	-X04		D15		
/Q04.3																		836	-X01		A09	0	
/Q04.6														-A100	-X10	35		837	+S1A.T -S200		14		
/Q05.2														-A100	-X11	1		838	-K100		10		
/Q05.3														-A100	-X11	2		839	+S1A.T -F301	-X3	26		
/Q05.3														-A100	-X11	3		840	+S1A.T -F301	-X3	25		
/Q05.5														-A100	-X11	4		841	-F310		10		
/Q05.6																		842	-X04		D12		
/Q05.6														-A100	-X11	5	FAULT	843	-X04		D13		
/Q05.5																	FAULT	844	-F310		14		
/Q05.4																	FAULT	845	+S1A.T -F301	-X3	19		
/Q05.7														-A100	-X11	6		846	-F102		11	Q	
/M04.7														=L021 S1.R	-X2	228		847	-K11E		43		
/M04.7														=L021 S1.R	-X2	229		848	-K11E		44		
/M04.8																		849	-K12E		43		
/M04.8																		850	-K12E		44		
/Q06.5																		862	-U401		23		
/Q06.5																		863	-U401		24		
/Q06.5																		864	-U401		25		
/Q06.5																		865	-U401		26		
/Q07.2														-X8		877		866	-X01		B02	0	
/Q07.3																		867	-X01		B15	0	
/Q07.3																		868	-X01		B13	0	
/Q07.4														=L021 +S1.R	-X2	204		869	-X01		D07	0	
/M05.4														-X1		114	102L+	870	+S1A.T -F301	-X3	30		
/Q07.7														+S1A.T -F301	-X1	17		871	-K201		34		
/Q07.7																		872	-K01E		44	Q	
/Q07.2														=L021 +S1.R	-X2	215		873	-X01		B03	0	
/Q07.2														=L021 +S1.R	-X2	217		874	-X01		B04	0	
/Q07.3																		875	-X01		B16	0	
/Q07.3																		876	-X01		B14	0	
/Q07.4														-X8		866		877	-X01		D08	0	
/M05.4																		878	+S1A.T -F301	-X3	29		
/M05.4														-X1		145		879	+S1A.T -F301	-X3	31		

Copyright as per DIN 34 to be observed!

FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005			
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert			
01	Approval	20.09.2005	AD	Check	Adam			

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80

AREVA

TERMINAL DIAGRAM
PANEL
04

50.3023.01.A3.741.226 V =L04 +S1A.R / K81

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 73
98 Sh.

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X8

CABLE MATERIAL	⌀	COLOR	TERM.TYPE
STANDARD: H07V-K 1.5MM2		SW	STANDARD: UDMTK5-P/P

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL	
/Q07.7														-X4	405
/M04.5														= + -X	..
/M04.6														= + -X	..
/M04.6															
/M04.7															
/M04.5														= + -X	..
/M04.6														= + -X	..
/M04.6															
/M04.7															
/Q05.4														-K203	A1

POT		NO
102L-		880
		881
		882
		883
		884
		885
		886
		887
		888
		889

DESTINAT. DESIG. INTERN			CORES/ LINE	REMARK
+S1A.T -F301	-X1	18		
-K11A		A1		
-K11E		A1		
-K12A		A1		
-K12E		A1		
-K11A		A2		
-K11E		A2		
-K12A		A2		
-K12E		A2		
+S1A.T -F301	-X3	24		

Copyright as per DIN 34 to be observed!

FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04

+S1A.R / K82

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 74 98 Sh.

NO	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X9

CABLE MATERIAL			⌀	COLOR
STANDARD:	H07V-K	1.5MM2		SW
POS.: 0	H05V-K	1.0MM2		SW

TERM.TYPE

STANDARD: UKKB3

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL	
/V01.2															
/G00.4													0	-K203	14
/V01.3															
/P02.6														-X1	183
/G00.4													0	-X9	916
/V01.4															
/V01.5															
/V01.5															
/V01.6															
/V01.7															
/V01.7															
/V01.8															
/V01.8															
/V01.8															
/V01.2															
/G00.4													0	-X9	905
/V01.3															
/P02.6														-X1	182
/G00.4														-X0	7A
/V01.4															
/V01.5															
/V01.5															
/V01.6															
/V01.7															
/V01.8															
/V01.8															
/V01.8															

POT	NO
	901
	902
	903
	904
	905
	906
	907
	908
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	913
	914
	915
	916
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	918
CBF1'	919
	920
	921
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	926
	927

DESTINAT. DESIG. INTERN				CORES/ LINE	REMARK
-X01		B09		0	
-X01		C09		0	
-X01		C11		0	
-X01		B11	Q		
-X01		D11		0	
-X01		D05		0	
-X01		D09		0	
-X01		C13		0	
+S2A	-Q8 -S1	63			
+S1A.T	-S200	9			
+S1A.T	-S200	11			
-X01		B10		0	
-X01		C10		0	
-X01		C12		0	
-X01		B12	Q		
-X01		D12			
-X01		D06		0	
-X01		D10		0	
-X01		C14		0	
+S2A	-Q8 -S1	64			
+S1A.T	-S200	10			

Copyright as per DIN 34 to be observed!

FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / K90

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 75 98 Sh.

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-XPE

CABLE MATERIAL				⌀	COLOR
STANDARD:		H05V-K	1.0MM2	GN/	YE
POS.:	2	H07V-K	2.5MM2		SW

TERM.TYPE: STANDARD: USLKG5

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL	POT NO	DESTINAT. DESIG. INTERN		CORES/ LINE	REMARK
/S01.4															PE	-X5	510	2	
/S01.8															PE	-X5	530	2	
/S02.5															PE				
/S02.5															PE	-X5	561		
/D01.7															PE				
/D01.7															PE				
/P02.6														+S2A -S7 32	1	-X01	B11	Q	
/P02.6														+S2A -S7 31	2	-X01	B12	Q	
/P01.4														+S1B.R -X9 908	3	-X01	D13		

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FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1A.R / KPE

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 76 98 Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
G00	CBF+ 1 1.5MM2	H07V-K SW	-X0 5	-K203 13	-K203 33				
G01	DC220V.L+ 2 2.5MM2	H07V-K SW	-X0 12	-F102 1	-F103 1	-F105 1	-F111 1	-F121 1	
G01	DC220V.L- 2 2.5MM2	H07V-K SW	-X0 14	-F102 3	-F103 3	-F105 3	-F111 3	-F121 3	
G02	1 1.5MM2	H07V-K SW		-K451A 81	-K451B 54				
G02	1 1.5MM2	H07V-K SW	-X1 131	-K451A 54	-K451A 82				
M01	1 1.5MM2	H07V-K SW	-X1 136	-K01A 14	-K11A 14	-K201 14			
M01	1 1.5MM2	H07V-K SW	-X1 139	-K01A 13	-K11A 13				
M01	1 1.5MM2	H07V-K SW	-X1 140	-K01E 14	-K201 13	-K201 21			
M02	1 1.5MM2	H07V-K SW	-X1 156	-K02A 14	-K12A 14	-K202 14			
M02	1 1.5MM2	H07V-K SW	-X1 159	-K02A 13	-K12A 13				
M02	1 1.5MM2	H07V-K SW	-X1 160	-K02E 14	-K202 13	-K202 21			
M03	102L- 1 1.5MM2	H07V-K SW	-X1 130	-K01A A2	-K01E A2	-K02A A2	-K02E A2	-K71 A2	-K72 A2
	---->			-K451A A2	-K451B A2				
M04	1 1.5MM2	H07V-K SW		-A100 -X20 1	-K01A A1				
M04	1 1.5MM2	H07V-K SW		-A100 -X20 5	-K02A A1				
M04	102L+ 1 1.5MM2	H07V-K SW	-X1 120	-A100 -X20 11	-A100 -X20 13	-A100 -X20 15	-A100 -X20 17		
P02	1 1.5MM2	H07V-K SW	-X9 904	-XPE 1	-X01 B11				
P02	1 1.5MM2	H07V-K SW	-X9 918	-XPE 2	-X01 B12				
Q02	1 1.5MM2	H07V-K SW		-A100 -X10 10	-A100 -X10 40				
Q04	03L+ 1 1.5MM2	H07V-K SW	-X8 808	-F111 12	-F121 12				

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FELD 04 D0097810 2 22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
RELAY BOX
PANEL
04

50.3023.01.A3.741.226 V =L04
+S1A.R / Q10

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 177
98 Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q04	1 1.5MM2	H07V-K SW	-X8 833	-F111 11	-F121 11				
Q05	1 1.5MM2	H07V-K SW		-A100 -X11 10	-A100 -X11 40				
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8 811	-F310 9	-F310 13	-K100 19			
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8 813	-F102 12	-F103 12	-F105 12	-F203 12		
Q05	1 1.5MM2	H07V-K SW	-X8 846	-F102 11	-F103 11	-F105 11	-F203 11		
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 2	-U401 17				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 3	-U401 18				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 6	-U401 15				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 7	-U401 16				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 32	-U401 19				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 33	-U401 20				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 36	-U401 21				
Q06	1 1.5MM2	H07V-K SW		-A100 -X30 37	-U401 22				
Q07	102L+ 1 1.5MM2	H07V-K SW	-X4 402	-K01E 43	-K02E 43				
Q07	1 1.5MM2	H07V-K SW	-X8 872	-K01E 44	-K02E 44				
R01	1 1.5MM2	H07V-K SW		-K01A 22	-K01E 21				
R01	1 1.5MM2	H07V-K SW		-K01E 22	-K11A 21				
R01	1 1.5MM2	H07V-K SW		-K02A 22	-K02E 21				
R01	1 1.5MM2	H07V-K SW		-K02E 22	-K12A 21				
R01	1 1.5MM2	H07V-K SW		-K11A 22	-K11E 21				

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
RELAY BOX
PANEL
04

50.3023.01.A3.741.226 V

=L04
+S1A.R / Q11

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 78
98 Sh.

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	1 1.5MM2	H07V-K SW		-K12A 22	-K12E 21				
R01	1 1.5MM2	H07V-K SW	-X4 416	-F102 22	-F103 22	-F105 22	-F111 22	-F121 22	-F203 22
R01	1 1.5MM2	H07V-K SW	-X4 417	-F102 21	-F103 21	-F105 21	-F111 21	-F121 21	-F203 21
S01	2 2.5MM2	H07V-K SW	-X5 511	-U401 3	-U401 6	-U401 9			
T01	1 1.5MM2	H07V-K SW		-K451A 21	-K451B 14				
T01	1 1.5MM2	H07V-K SW		-K451A 61	-K451B 34				
T01	1 1.5MM2	H07V-K SW		-K451A 71	-K451B 44				
T01	L1 1 1.5MM2	H07V-K SW	-X6 601	-K451A 14	-K451A 22				
T01	L2 1 1.5MM2	H07V-K SW	-X6 604	-K451A 34	-K451A 62				
T01	L3 1 1.5MM2	H07V-K SW	-X6 607	-K451A 44	-K451A 72				

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.
03	AS BUILT	05.12.2006	AD	
02	Fact.-Rev.	09.11.2005	AD	
01	Approval	20.09.2005	AD	

Date 13.07.2005
Drawn Bräunert
Check Adam

US STEEL KOSICE/SLOVAKIA
50.3023.01
SUBSTATION T80
Orig.: iss.for iss.by:

AREVA

CROSS CONNECT. LIST
RELAY BOX
PANEL
04

50.3023.01.A3.741.226 V
=L04
+S1A.R / Q12
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet79
98Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
M01	1 1.5MM2	H07V-K SW		-S01A 13	-S200 1				
M02	102L+ 1 1.5MM2	H07V-K SW		-F301 -X3 34	-F301 -X3 36	-S200 2	-S200 6		
M02	1 1.5MM2	H07V-K SW		-S02A 13	-S200 5				
Q05	03L+ 1 1.5MM2	H07V-K SW		-F301 -X3 20	-F301 -X3 22				
R01	102L+ 1 1.5MM2	H07V-K SW		-S01A 21	-S02A 21				
S02	2 2.5MM2	H07V-K SW		-F301 -X1 2	-F301 -X1 4	-F301 -X1 6			

Copyright as per DIN 34 to be observed!

FELD 04
D0097810 2
22.12.2006 HJ0115ND =L04+S1A Q15 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
RELAY BOX
PANEL
04

50.3023.01.A3.741.226 V =L04 +S1A.T / Q15

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 83
98Sh.

TERMINAL DIA. , 64-POLE , CIRCUIT-BREAKER

SOCKET

+S1A.R -X01

CABLE MATERIAL H05V-K 1.0mm2 SW

	A		B		C		D	
1	A01	-X1 101 /L01.2 H05V-K 1.0MM2 SW	B01	-X8 822 /Q02.4 H05V-K 1.0MM2 SW	C01	-X1 145 /M01.5 H05V-K 1.0MM2 SW	D01	-X3 325 /Q01.3 H05V-K 1.0MM2 SW
2	A02	-X1 102 /L01.2 H05V-K 1.0MM2 SW	B02	-X8 866 /Q07.2 H05V-K 1.0MM2 SW	C02	-X1 122 /M01.5 H05V-K 1.0MM2 SW	D02	-X8 803 /Q02.5 H05V-K 1.0MM2 SW
3	A03	-X1 136 /M01.6 H05V-K 1.0MM2 SW	B03	-X8 873 /Q07.2 H05V-K 1.0MM2 SW	C03		D03	-X8 823 /Q02.5 H05V-K 1.0MM2 SW
4	A04	-X1 123 /M01.6 H05V-K 1.0MM2 SW	B04	-X8 874 /Q07.2 H05V-K 1.0MM2 SW	C04		D04	-X8 825 /Q02.5 H05V-K 1.0MM2 SW
5	A05	-X1 138 /M01.7 H05V-K 1.0MM2 SW	B05	-X0 5 /D01.3 H05V-K 1.0MM2 SW	C05	-X0 025 /P01.2 H05V-K 1.0MM2 SW	D05	-X9 906 /V01.4 H05V-K 1.0MM2 SW
6	A06	-X1 142 /M01.7 H05V-K 1.0MM2 SW	B06	-X0 7 /D01.3 H05V-K 1.0MM2 SW	C06	-X0 027 /P01.2 H05V-K 1.0MM2 SW	D06	-X9 920 /V01.4 H05V-K 1.0MM2 SW
7	A07	-X8 809 /Q04.3 H05V-K 1.0MM2 SW	B07	-X1 116 /M03.5 H05V-K 1.0MM2 SW	C07		D07	-X8 869 /Q07.4 H05V-K 1.0MM2 SW
8	A08	-X8 834 /Q04.3 H05V-K 1.0MM2 SW	B08	-X1 173 /M03.5 H05V-K 1.0MM2 SW	C08		D08	-X8 877 /Q07.4 H05V-K 1.0MM2 SW
9	A09	-X8 836 /Q04.3 H05V-K 1.0MM2 SW	B09	-X9 901 /V01.2 H05V-K 1.0MM2 SW	C09	-X9 902 /V01.2 H05V-K 1.0MM2 SW	D09	-X9 907 /V01.5 H05V-K 1.0MM2 SW
10	A10	-X4 410 /R01.3 H05V-K 1.0MM2 SW	B10	-X9 915 /V01.2 H05V-K 1.0MM2 SW	C10	-X9 916 /V01.2 H05V-K 1.0MM2 SW	D10	-X9 921 /V01.5 H05V-K 1.0MM2 SW
11	A11	-X4 413 /R01.3 H05V-K 1.0MM2 SW	B11	-X9 904 /V01.4 H05V-K 1.0MM2 SW	C11	-X9 903 /V01.3 H05V-K 1.0MM2 SW	D11	-X9 905 /V01.4 H05V-K 1.0MM2 SW
12	A12	-X3 302 /Q01.2 H05V-K 1.0MM2 SW	B12	-X9 918 /V01.4 H05V-K 1.0MM2 SW	C12	-X9 917 /V01.3 H05V-K 1.0MM2 SW	D12	-X9 919 /V01.4 H05V-K 1.0MM2 SW
13	A13	-X3 321 /Q01.2 H05V-K 1.0MM2 SW	B13	-X8 868 /Q07.3 H05V-K 1.0MM2 SW	C13	-X9 908 /V01.5 H05V-K 1.0MM2 SW	D13	-X0 030 /P01.4 H05V-K 1.0MM2 SW
14	A14	-X3 322 /Q01.2 H05V-K 1.0MM2 SW	B14	-X8 876 /Q07.3 H05V-K 1.0MM2 SW	C14	-X9 922 /V01.5 H05V-K 1.0MM2 SW	D14	-X0 023 /P01.4 H05V-K 1.0MM2 SW
15	A15	-X8 802 /Q02.3 H05V-K 1.0MM2 SW	B15	-X8 867 /Q07.3 H05V-K 1.0MM2 SW	C15	-X3 303 /Q01.3 H05V-K 1.0MM2 SW	D15	
16	A16	-X8 821 /Q02.3 H05V-K 1.0MM2 SW	B16	-X8 875 /Q07.3 H05V-K 1.0MM2 SW	C16	-X3 323 /Q01.3 H05V-K 1.0MM2 SW	D16	

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

FELD 04
D0097810 2
HJ0115MD
=L04+S1A
S01
ADAM
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

PLUG DIAGRAM
CIRCUIT-BREAKER
PANEL
04

50.3023.01.A3.741.226 V

=L04
+S1A.R / S01

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 80
98 Sh.

ASSEMBLY/INSTRUCT.	CABLE MATERIAL	-X04	TERM.TYPE
	STANDARD: H07V-K 1.5MM2 BK		STANDARD:

RÜCK-REF.	LTG (⌀ IN MM2) CABLE	CORE	DESTINAT. DESIG.	SOCKET
/G00.6			-X0	7
/G00.6			-X0	9
/L01.4			-X1	103
/L01.4			-X1	104
/M02.6			-X1	155
/M02.7			-X1	158
/M02.6			-X1	126
/M02.7			-X1	162
/M02.4			-X1	118
/M02.4			-X1	152
/M03.3			-X1	115
/M03.3			-X1	171
/COST.1				
/M03.6			-X1	174
/M03.7			-X1	175
/COST.1				
/N01.6			-X0	092
/N01.6			-X0	096
/N01.6			-X0	098
/N01.7			-X0	094
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/P02.6			-X1	184
/P02.4			-X1	181
/R01.5			-X4	412
/R01.5			-X4	414
/COST.2				
/COST.2				
/COST.2				
/COST.2				

POT	NO
	A01
CBF2'	A02
121L+	A03
121L-	A04
	A05
	A06
102L-	A07
	A08
102L+	A09
	A10
102L+	A11
	A12
	A13
	A14
	A15
	A16
ACR+	B01
TRANSFER TRIPPING	B02
I>	B03
ACR-	B04
	B05
	B06
	B07
	B08
	B09
	B10
	B11
	B12
	B13
	B14
	B15
	B16
DRAWG.UNIT RELEASE	C01
	C02
	C03
	C04
	C05
	C06
	C07
	C08

DESTINAT. DESIG.	PIN	LTG (⌀ IN MM2) CABLE	CORE	REMARK
+S1B.R -X0	5			
+S1B.R -X0	7	H05V-K	1.0MM2 SW	
+S1B.R -X1	101			
+S1B.R -X1	102			
+S1B.R -X1	121			
+S1B.R -X1	122			
+S1B.R -X1	123			
+S1B.R -X1	124			
+S1B.R -X1	125			
+S1B.R -X1	126			
+S1B.R -X1	127			
+S1B.R -X1	130			
+S1B.R -X1	131			
+S1B.R -X1	132			
+S1B.R -X1	141			
+S1B.R -X1	142			
+S1B.R -X1	143			
+S1B.R -X1	144			
+S1B.R -X0	030			
+S1B.R -X1	181			
+S1B.R -X4	401			
+S1B.R -X4	402			

Copyright as per DIN 34 to be observed!

FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

PLUG DIAGRAM
NIEDERSPG.-SCHR.A- NIEDERSPG.-SCHR.B
PANEL 04

50.3023.01.A3.741.226 V =L04 +S1A.R / S40

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 81 98Sh.

ASSEMBLY/INSTRUCT.	CABLE MATERIAL	-X04	TERM.TYPE
	STANDARD: H07V-K 1.5MM2 BK		STANDARD:

RÜCK-REF.	LTG (ø IN MM2) CABLE	CORE	DESTINAT. DESIG.	SOCKET
/M02.4			-X1	146
/M02.4			-X1	126
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/COST.2				
/Q01.5			-X3	305
/Q01.5			-X3	326
/Q01.5			-X3	327
/Q01.5			-X3	328
/Q01.6			-X3	330
/Q03.4			-X8	806
/Q03.4			-X8	828
/Q03.4			-X8	829
/Q03.5			-X8	830
/Q03.5			-X8	832
/COST.3				
/Q05.6			-X8	842
/Q05.6			-X8	843
/COST.3				
/Q04.4			-X8	835
/COST.3				

POT	NO
	C09
102L-	C10
	C11
	C12
	C13
	C14
	C15
	C16
102L+	D01
	D02
	D03
	D04
	D05
03L+	D06
	D07
	D08
	D09
	D10
	D11
	D12
FAULT	D13
	D14
	D15
	D16

DESTINAT. DESIG.	PIN	LTG (ø IN MM2) CABLE	CORE	REMARK
+S1B.R -X1	110			
+S1B.R -X1	111			
+S1B.R -X3	301			
+S1B.R -X3	303			
+S1B.R -X3	304			
+S1B.R -X3	305			
+S1B.R -X3	306			
+S1B.R -X8	801			
+S1B.R -X8	805			
+S1B.R -X8	806			
+S1B.R -X8	807			
+S1B.R -X8	808			
+S1B.R -X8	809			
+S1B.R -X8	810			
+S1B.R -X8	811			

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FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.			
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80	
						Orig.:	iss.for

AREVA — iss.by:

PLUG DIAGRAM
NIEDERSPG.-SCHR.A- NIEDERSPG.-SCHR.B
PANEL 04

50.3023.01.A3.741.226 V

=L04
+S1A.R / S41

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 82
98 Sh.

Nu	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X0

CABLE MATERIAL			Ø	COLOR
STANDARD:		H07V-K 1.5MM2		SW
POS.:	0	H05V-K 1.0MM2		SW
	2	H07V-K 2.5MM2		SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL		
/G00.6															+S1A.R -X04	A01
/G00.6																
/G00.6													0		+S1A.R -X04	A02
/G00.6																
/P02.1													2	=L05	+S1B.R -X0	022
/P02.7													2	=L03	+S1B.R -X0	021
/P02.1													2	=L05	+S1B.R -X0	024
/P02.7													2	=L03	+S1B.R -X0	023
/P02.1													2	=L05	+S1B.R -X0	028
/P02.3																
/P02.2																
/P02.7													2	=L03	+S1B.R -X0	025
/P02.1													2	=L05	+S1B.R -X0	030
/P02.7													2	=L03	+S1B.R -X0	029

POT	NO
	5
	6
CBF2'	7
CBF2'	8
224L+	021
224L+	022
224L-	023
224L-	024
	025
	026
BUSBAR ES.RELEASE	027
BUSBAR ES.RELEASE	028
DRAWG.UNIT RELEASE	029
DRAWG.UNIT RELEASE	030

DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
-X9	902		
-X9	915	0	
-X02	D14	0	
-K200	A2	0	
-X02	C05	0	
+S2B -S7	22	0	
-X02	C06	0	
+S2B -S7	21		
+S1A.R -X04	C01		

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V =L04 +S1B.R / K01

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 84 98Sh.

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X1

CABLE MATERIAL			Ø	COLOR
STANDARD:		H07V-K	1.5MM2	SW
POS.:	0	H05V-K	1.0MM2	SW

TERM.TYPE: STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/ LINE	DESTINAT. DESIG. EXTERNAL	
/L01.6														+S1A.R -X04	A03
/L01.6														+S1A.R -X04	A04
/M02.4														+S1A.R -X04	C09
/M02.4														+S1A.R -X04	C10
/M02.6														+S1A.R -X04	A05
/M02.7														+S1A.R -X04	A06
/M02.6														+S1A.R -X04	A07
/M02.7														+S1A.R -X04	A08
/M02.4														+S1A.R -X04	A09
/M02.4														+S1A.R -X04	A10
/M03.3														+S1A.R -X04	A11
/M03.6															
/M03.7															
/M03.3														+S1A.R -X04	A12
/M03.6														+S1A.R -X04	A14
/M03.7														+S1A.R -X04	A15
/N01.6														+S1A.R -X04	B01
/N01.6														+S1A.R -X04	B02
/N01.6														+S1A.R -X04	B03
/N01.7														+S1A.R -X04	B04
/P02.4														+S1A.R -X04	C02

POT	NO
121L+	101
121L-	102
	110
102L-	111
	121
	122
102L-	123
	124
102L+	125
	126
102L+	127
102L+	128
102L+	129
	130
	131
	132
ACR+	141
TRANSFER TRIPPING	142
I>	143
ACR-	144
	181

DESTINAT. DESIG. INTERN		CORES/ LINE	REMARK
-X02	A01	0	
-X02	A02	0	
-X02	C01	0	
-X02	C02	0	
-X02	A03	0	
-X02	A05	0	
-X02	A04	0	
-X02	A06	0	
-F310	7		
-F310	8		
-X02	B11	0	
-X02	B07	0	
+S2B -S7	12		
-X02	B12	0	
-X02	B08	0	
+S2B -S7	11		
-F310	1		
-F310	6		
-F310	4		
-F310	2		
-X02	D13		

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04

+S1B.R / K10

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 85 98Sh.

NO	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X3

CABLE MATERIAL			⌀	COLOR
STANDARD:		H07V-K	1.5MM2	SW
POS.:	0	H05V-K	1.0MM2	SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL	
/Q01.5														+S1A.R -X04	D01
/Q01.6															
/Q01.5														+S1A.R -X04	D02
/Q01.5														+S1A.R -X04	D03
/Q01.5														+S1A.R -X04	D04
/Q01.6														+S1A.R -X04	D05

POT	NO
102L+	301
102L+	302
	303
	304
	305
	306

DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
-X02	A12	0	
-X02	C15	0	
-X02	A13	0	
-X02	A14	0	
-X02	C16	0	
-X02	D01	0	

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FELD 04 D0978102 22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1B.R / K30

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 86 98Sh.

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X4

CABLE MATERIAL			⌀	COLOR	TERM.TYPE
STANDARD:		H07V-K	1.5MM2	SW	STANDARD: UK5N
POS.:	0	H05V-K	1.0MM2	SW	

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL		POT NO	DESTINAT. DESIG. INTERN		CORES/LINE	REMARK
/R01.5														+S1A.R -X04	C03	401	-X02	A10	0	
/R01.5														+S1A.R -X04	C04	402	-X02	A11	0	

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1B.R / K40

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 87 98Sh.

No	CABLE	WIRES USED	SHEET\STATE	CABLE-TYPE	SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X8

CABLE MATERIAL			Ø	COLOR
STANDARD:		H07V-K	1.5MM2	SW
POS.:	0	H05V-K	1.0MM2	SW

TERM.TYPE

STANDARD: MTK-P/P

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL		POT	NO
/Q03.4														+S1A.R -X04	D06	03L+	801
/Q03.5																03L+	802
/Q05.6																03L+	803
/Q04.4																03L+	804
/Q03.4														+S1A.R -X04	D07		805
/Q03.4														+S1A.R -X04	D08		806
/Q03.5														+S1A.R -X04	D09		807
/Q03.5														+S1A.R -X04	D10		808
/Q05.6														+S1A.R -X04	D12		809
/Q05.6														+S1A.R -X04	D13	FAULT	810
/Q04.4														+S1A.R -X04	D15		811
/Q04.4																	812
/Q08.2														-X8	821		813
/Q08.3																	814
/Q08.3																	815
/Q08.4														=L021 +S1.R -X2	205		816
/Q08.2														=L021 +S1.R -X2	216		817
/Q08.2														=L021 +S1.R -X2	218		818
/Q08.3																	819
/Q08.3																	820
/Q08.4														-X8	813		821

DESTINAT. DESIG. INTERN			CORES/LINE	REMARK
-X02	A15		0	
-X02	D02		0	
-F310	9	Q		
-X02	A07		0	
-X02	A16		0	
-X02	B01		0	
-X02	D03		0	
-X02	D04		0	
-F310	10			
-F310	14			
-X02	A08		0	
-X02	A09		0	
-X02	B02		0	
-X02	B15		0	
-X02	B13		0	
-X02	D07		0	
-X02	B03		0	
-X02	B04		0	
-X02	B16		0	
-X02	B14		0	
-X02	D08		0	

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FELD 04 D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1B.R / K80

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 88 98Sh.

Nu	CABLE	WIRES USED SHEET\STATE	CABLE-TYPE SECTION	CORES	-ROUTE

CIRCUIT DIAGRAM

INSTALLATION

-X9

CABLE MATERIAL			Ø	COLOR
STANDARD:		H07V-K	1.5MM2	SW
POS.:	0	H05V-K	1.0MM2	SW

TERM.TYPE

STANDARD: UK5N

RÜCK-REF.	NO 1	2	3	4	5	6	7	8	9	10	11	12	CORES/LINE	DESTINAT. DESIG. EXTERNAL	
/V02.2															
/G00.6														-X0	5
/V02.3															
/V02.4															
/G00.6														-X9	912
/P01.4														+S1A.R -X0	030
/V02.5															
/P01.4														+S1A.R -XPE	3
/V02.6															
/V02.6															
/V02.2															
/G00.6														-X9	905
/V02.3															
/V02.4															
/G00.6													0	-X0	7
/P01.4														-X9	918
/V02.5															
/P01.4														-X9	916
/V02.6															
/V02.6															

POT	NO
	901
	902
	903
	904
	905
DRAWG.UNIT RELEASE	906
	907
	908
	909
	910
	911
	912
	913
	914
GBF2'	915
	916
	917
	918
	919
	920

DESTINAT. DESIG. INTERN			CORES/LINE	REMARK
-X02	B09		0	
-X02	C09			
-X02	C11		0	
-X02	D11			
-X02	D05	Q		
-X02	D09		0	
-X02	C13	Q	0	
-X02	B10		0	
-X02	C10			
-X02	C12		0	
-X02	D12			
-X02	D06			
-X02	D10		0	
-X02	C14			

Copyright as per DIN 34 to be observed!

FELD 04

D0097810 2

22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

TERMINAL DIAGRAM

PANEL 04

50.3023.01.A3.741.226 V

=L04 +S1B.R / K90

Typ: 09 MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 89 98Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM GR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q05	03L+ 1 1.5MM2	H07V-K SW	-X8 803	-F310 9	-F310 13				

Copyright as per DIN 34 to be observed!

FELD 04
D0097810 2
22.12.2006

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
RELAY BOX
PANEL
04

50.3023.01.A3.741.226 V =L04
+S1B.R / Q10
Typ: 09
MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 90
98Sh.

TERMINAL DIA. , 64-POLE , CIRCUIT-BREAKER

SOCKET

+S1B.R -X02

CABLE MATERIAL H05V-K 1.0mm2 SW

	A	B	C	D
1	A01 -X1 101 /L01.6 H05V-K 1.0MM2 SW	B01 -X8 806 /Q03.4 H05V-K 1.0MM2 SW	C01 -X1 110 /M02.4 H05V-K 1.0MM2 SW	D01 -X3 306 /Q01.6 H05V-K 1.0MM2 SW
2	A02 -X1 102 /L01.6 H05V-K 1.0MM2 SW	B02 -X8 813 /Q08.2 H05V-K 1.0MM2 SW	C02 -X1 111 /M02.4 H05V-K 1.0MM2 SW	D02 -X8 802 /Q03.5 H05V-K 1.0MM2 SW
3	A03 -X1 121 /M02.6 H05V-K 1.0MM2 SW	B03 -X8 817 /Q08.2 H05V-K 1.0MM2 SW	C03	D03 -X8 807 /Q03.5 H05V-K 1.0MM2 SW
4	A04 -X1 123 /M02.6 H05V-K 1.0MM2 SW	B04 -X8 818 /Q08.2 H05V-K 1.0MM2 SW	C04	D04 -X8 808 /Q03.5 H05V-K 1.0MM2 SW
5	A05 -X1 122 /M02.7 H05V-K 1.0MM2 SW	B05 -X0 5 /D01.3 H05V-K 1.0MM2 SW	C05 -X0 025 /P02.2 H05V-K 1.0MM2 SW	D05 -X9 906 /V02.4 H05V-K 1.0MM2 SW
6	A06 -X1 124 /M02.7 H05V-K 1.0MM2 SW	B06 -X0 7 /D01.3 H05V-K 1.0MM2 SW	C06 -X0 027 /P02.2 H05V-K 1.0MM2 SW	D06 -X9 916 /V02.4 H05V-K 1.0MM2 SW
7	A07 -X8 804 /Q04.4 H05V-K 1.0MM2 SW	B07 -X1 128 /M03.6 H05V-K 1.0MM2 SW	C07	D07 -X8 816 /Q08.4 H05V-K 1.0MM2 SW
8	A08 -X8 811 /Q04.4 H05V-K 1.0MM2 SW	B08 -X1 131 /M03.6 H05V-K 1.0MM2 SW	C08	D08 -X8 821 /Q08.4 H05V-K 1.0MM2 SW
9	A09 -X8 812 /Q04.4 H05V-K 1.0MM2 SW	B09 -X9 901 /V02.2 H05V-K 1.0MM2 SW	C09 -X9 902 /V02.2 H05V-K 1.0MM2 SW	D09 -X9 907 /V02.5 H05V-K 1.0MM2 SW
10	A10 -X4 401 /R01.5 H05V-K 1.0MM2 SW	B10 -X9 911 /V02.2 H05V-K 1.0MM2 SW	C10 -X9 912 /V02.2 H05V-K 1.0MM2 SW	D10 -X9 917 /V02.5 H05V-K 1.0MM2 SW
11	A11 -X4 402 /R01.5 H05V-K 1.0MM2 SW	B11 -X1 127 /M03.3 H05V-K 1.0MM2 SW	C11 -X9 903 /V02.3 H05V-K 1.0MM2 SW	D11 -X9 905 /V02.4 H05V-K 1.0MM2 SW
12	A12 -X3 301 /Q01.5 H05V-K 1.0MM2 SW	B12 -X1 130 /M03.3 H05V-K 1.0MM2 SW	C12 -X9 913 /V02.3 H05V-K 1.0MM2 SW	D12 -X9 915 /V02.4 H05V-K 1.0MM2 SW
13	A13 -X3 303 /Q01.5 H05V-K 1.0MM2 SW	B13 -X8 815 /Q08.3 H05V-K 1.0MM2 SW	C13 -X9 908 /V02.5 H05V-K 1.0MM2 SW	D13 -X1 181 /P02.4 H05V-K 1.0MM2 SW
14	A14 -X3 304 /Q01.5 H05V-K 1.0MM2 SW	B14 -X8 820 /Q08.3 H05V-K 1.0MM2 SW	C14 -X9 918 /V02.5 H05V-K 1.0MM2 SW	D14 -X0 023 /P02.4 H05V-K 1.0MM2 SW
15	A15 -X8 801 /Q03.4 H05V-K 1.0MM2 SW	B15 -X8 814 /Q08.3 H05V-K 1.0MM2 SW	C15 -X3 302 /Q01.6 H05V-K 1.0MM2 SW	D15
16	A16 -X8 805 /Q03.4 H05V-K 1.0MM2 SW	B16 -X8 819 /Q08.3 H05V-K 1.0MM2 SW	C16 -X3 305 /Q01.5 H05V-K 1.0MM2 SW	D16

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

22.12.2006 HJ0115MD =L04+S1B S01 ADAM
FELD 04 D0097810 2

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

PLUG DIAGRAM
CIRCUIT-BREAKER
PANEL
04

50.3023.01.A3.741.226 V =L04 +S1B.R / S01
Typ: 09 MOTOR FEEDER
D009781.02.604-3.AHA
Sheet 91 98Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q01	102L+ 1 1.5MM2	H07V-K SW		-S1 -Q8 11	-S1 -Q8 23				
Q02	03L+ 1 1.5MM2	H07V-K SW		-S1 -Q8 31	-S1 -Q8 43				

Copyright as per DIN 34 to be observed!

FELD 04
D0097810 2
22.12.2006 HJ0115MD =L04+S2A Q20 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
PANEL
PANEL
04

50.3023.01.A3.741.226 V
=L04
+S2A / Q20

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 92
98Sh.

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 -Q01 71				
D01	0 1.0MM2	H05V-K SW		-X01 B06	-S1 -Q01 72				
L01	111L+ 0 1.0MM2	H05V-K SW		-X01 A01	-S22 -Q01 11				
L01	111L- 0 1.0MM2	H05V-K SW		-X01 A02	-S23 -Q01 12				
M01	0 1.0MM2	H05V-K SW		-F2 -Q01 C1	-S1 -Q01 222				
M01	0 1.0MM2	H05V-K SW		-F2 -Q01 C2	-S43 -Q01 11				
M01	0 1.0MM2	H05V-K SW		-S1 -Q01 221	-S21 -Q01 14				
M01	0 1.0MM2	H05V-K SW		-S21 -Q01 13	-S6 -Q01 12				
M01	0 1.0MM2	H05V-K SW		-X01 A03	-S1 -Q01 213				
M01	102L- 0 1.0MM2	H05V-K SW		-X01 A04	-F11 -Q01 C2				
M01	0 1.0MM2	H05V-K SW		-X01 A05	-S6 -Q01 11				
M01	0 1.0MM2	H05V-K SW		-X01 A06	-S43 -Q01 12				
M03	102L+ 0 1.0MM2	H05V-K SW		-X01 B07	-S1 -Q01 83				
M03	0 1.0MM2	H05V-K SW		-X01 B08	-S1 -Q01 84				
P01	0 1.0MM2	H05V-K SW		-S1 -Q1 32	-S61 14				
P01	0 1.0MM2	H05V-K SW		-X01 C05	-S1 -Q1 31				
P01	BUSBAR ES.RELEASE 0 1.0MM2	H05V-K SW		-X01 C06	-S61 11				
P01	DRAWG.UNIT RELEASE 0 1.0MM2	H05V-K SW		-X01 D13	-Y1 E1				
P01	214L- 0 1.0MM2	H05V-K SW		-X01 D14	-Y1 E2				
Q01	102L+ 0 1.0MM2	H05V-K SW		-X01 A12	-S1 -Q01 11	-S1 -Q01 23			

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FELD 04 D0097810 2

22.12.2006 HJ0115MD =L04+S3A Q30 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
SWITCHING TRUCK
PANEL
04

50.3023.01.A3.741.226 V

=L04
+S3A / Q30

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 93
98 Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q01	0 1.0MM2	H05V-K SW		-X01 A13	-S1 -Q01 12				
Q01	0 1.0MM2	H05V-K SW		-X01 A14	-S1 -Q01 24				
Q01	102L+ 0 1.0MM2	H05V-K SW		-X01 C15	-S1 -Q1 11	-S1 -Q1 13			
Q01	0 1.0MM2	H05V-K SW		-X01 C16	-S1 -Q1 12				
Q01	0 1.0MM2	H05V-K SW		-X01 D01	-S1 -Q1 14				
Q02	03L+ 0 1.0MM2	H05V-K SW		-X01 A15	-S1 -Q01 31	-S1 -Q01 43			
Q02	0 1.0MM2	H05V-K SW		-X01 A16	-S1 -Q01 32				
Q02	0 1.0MM2	H05V-K SW		-X01 B01	-S1 -Q01 44				
Q02	03L+ 0 1.0MM2	H05V-K SW		-X01 D02	-S1 -Q1 21	-S1 -Q1 23			
Q02	0 1.0MM2	H05V-K SW		-X01 D03	-S1 -Q1 22				
Q02	0 1.0MM2	H05V-K SW		-X01 D04	-S1 -Q1 24				
Q04	03L+ 0 1.0MM2	H05V-K SW		-X01 A07	-S24 -Q01 11				
Q04	0 1.0MM2	H05V-K SW		-X01 A08	-S24 -Q01 12				
Q04	0 1.0MM2	H05V-K SW		-X01 A09	-S24 -Q01 14				
Q07	0 1.0MM2	H05V-K SW		-X01 B02	-S1 -Q01 51	-S1 -Q01 63			
Q07	0 1.0MM2	H05V-K SW		-X01 B03	-S1 -Q01 52				
Q07	0 1.0MM2	H05V-K SW		-X01 B04	-S1 -Q01 64				
Q07	0 1.0MM2	H05V-K SW		-X01 B13	-S42 -Q01 11				
Q07	0 1.0MM2	H05V-K SW		-X01 B14	-S42 -Q01 14				
Q07	0 1.0MM2	H05V-K SW		-X01 B15	-S25 -Q01 11				

Copyright as per DIN 34 to be observed!

FELD 04 D0097810 2

22.12.2006 HJ0115MD =L04+S3A Q31 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	Iss.for	Iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
SWITCHING TRUCK
PANEL
04

50.3023.01.A3.741.226 V =L04 +S3A / Q31

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 94
98Sh.

CROSS CONNECTION

REFERENCE	POTENTIAL ITEM CR. SECTION	CABLE MATERIAL COLOR	OUTPUT TERMINAL	DESTINATION 1	DESTINATION 2	DESTINATION 3	DESTINATION 4	DESTINATION 5	DESTINATION 6
Q07	0 1.0MM2	H05V-K SW		-X01 B16	-S25 -Q01 14				
Q07	0 1.0MM2	H05V-K SW		-X01 D07	-S1 -Q1 33				
Q07	0 1.0MM2	H05V-K SW		-X01 D08	-S1 -Q1 34				
R01	0 1.0MM2	H05V-K SW		-X01 A10	-S41 -Q01 11				
R01	0 1.0MM2	H05V-K SW		-X01 A11	-S1 -Q01 230				
V01	0 1.0MM2	H05V-K SW		-S1 -Q1 42	-S62 14				
V01	0 1.0MM2	H05V-K SW		-X01 B09	-S1 -Q01 91				
V01	0 1.0MM2	H05V-K SW		-X01 B10	-S1 -Q01 92				
V01	0 1.0MM2	H05V-K SW		-X01 B11	-S1 -Q1 41				
V01	0 1.0MM2	H05V-K SW		-X01 B12	-S62 11				
V01	0 1.0MM2	H05V-K SW		-X01 C09	-S1 -Q01 103				
V01	0 1.0MM2	H05V-K SW		-X01 C10	-S1 -Q01 104				
V01	0 1.0MM2	H05V-K SW		-X01 C11	-S1 -Q01 111				
V01	0 1.0MM2	H05V-K SW		-X01 C12	-S1 -Q01 112				
V01	0 1.0MM2	H05V-K SW		-X01 C13	-S63 14				
V01	0 1.0MM2	H05V-K SW		-X01 C14	-S63 11				
V01	0 1.0MM2	H05V-K SW		-X01 D05	-S1 -Q1 51				
V01	0 1.0MM2	H05V-K SW		-X01 D06	-S1 -Q1 52				
V01	0 1.0MM2	H05V-K SW		-X01 D09	-S1 -Q1 61				
V01	0 1.0MM2	H05V-K SW		-X01 D10	-S1 -Q1 62				

Copyright as per DIN 34 to be observed!

FELD 04 D009781 02

22.12.2006 HJ0115MD =L04+S3A Q32 ADAM

NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		

AREVA

CROSS CONNECT. LIST
SWITCHING TRUCK
PANEL
04

50.3023.01.A3.741.226 V =L04 +S3A / Q32

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 95
98 Sh.

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				

Copyright as per DIN 34 to be observed!

FELD 04
D0097810 2
22.12.2006 HJ0115MD =L04+S3A Q33 ADAM

NO.	Alteration	Date	Name
03	AS BUILT	05.12.2006	AD
02	Fact.-Rev.	09.11.2005	AD
01	Approval	20.09.2005	AD

Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	
Drawn	Bräunert	50.3023.01	
Check	Adam	SUBSTATION T80	
Std.		Orig.:	iss.for

AREVA

iss.by:

CROSS CONNECT. LIST
SWITCHING TRUCK
PANEL
04

50.3023.01.A3.741.226 V

=L04
+S3A / Q33

Typ: 09
MOTOR FEEDER

D009781.02.604-3.AHA

Sheet 96
98Sh.

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER

PIN

+S3A -X01

CABLE MATERIAL H05V-K 1.0mm2 SW

	A	B	C	D
1	A01 -Q01 -S22 11 / /L01.2	B01 -Q01 -S1 44 / /Q02.4	C01 -Q01 -S1 243 / /M01.5	D01 -Q1 -S1 14 / /Q01.3
2	A02 -Q01 -S23 12 / /L01.2	B02 -Q01 -S1 51 Q / /Q07.2	C02 -Q01 -F12 C2 / /M01.5	D02 -Q1 -S1 21 Q / /Q02.5
3	A03 -Q01 -S1 213 / /M01.6	B03 -Q01 -S1 52 / /Q07.2	C03	D03 -Q1 -S1 22 / /Q02.5
4	A04 -Q01 -F11 C2 / /M01.6	B04 -Q01 -S1 64 / /Q07.2	C04	D04 -Q1 -S1 24 / /Q02.5
5	A05 -Q01 -S6 11 / /M01.7	B05 -Q01 -S1 71 / /D01.3	C05 -Q1 -S1 31 / /P01.2	D05 -Q1 -S1 51 / /V01.4
6	A06 -Q01 -S43 12 / /M01.7	B06 -Q01 -S1 72 / /D01.3	C06 -S61 11 / /P01.2	D06 -Q1 -S1 52 / /V01.4
7	A07 -Q01 -S24 11 / /Q04.3	B07 -Q01 -S1 83 / /M03.5	C07	D07 -Q1 -S1 33 / /Q07.4
8	A08 -Q01 -S24 12 / /Q04.3	B08 -Q01 -S1 84 / /M03.5	C08	D08 -Q1 -S1 34 / /Q07.4
9	A09 -Q01 -S24 14 / /Q04.3	B09 -Q01 -S1 91 / /V01.2	C09 -Q01 -S1 103 / /V01.2	D09 -Q1 -S1 61 / /V01.5
10	A10 -Q01 -S41 11 / /R01.3	B10 -Q01 -S1 92 / /V01.2	C10 -Q01 -S1 104 / /V01.2	D10 -Q1 -S1 62 / /V01.5
11	A11 -Q01 -S1 230 / /R01.3	B11 -Q1 -S1 41 / /V01.4	C11 -Q01 -S1 111 / /V01.3	D11 -Q1 -S1 43 / /V01.4
12	A12 -Q01 -S1 11 Q / /Q01.2	B12 -S62 11 / /V01.4	C12 -Q01 -S1 112 / /V01.3	D12 -Q1 -S1 44 / /V01.4
13	A13 -Q01 -S1 12 / /Q01.2	B13 -Q01 -S42 11 / /Q07.3	C13 -S63 14 / /V01.5	D13 -Y1 E1 / /P01.4
14	A14 -Q01 -S1 24 / /Q01.2	B14 -Q01 -S42 14 / /Q07.3	C14 -S63 11 / /V01.5	D14 -Y1 E2 / /P01.4
15	A15 -Q01 -S1 31 Q / /Q02.3	B15 -Q01 -S25 11 / /Q07.3	C15 -Q1 -S1 11 Q / /Q01.3	D15
16	A16 -Q01 -S1 32 / /Q02.3	B16 -Q01 -S25 14 / /Q07.3	C16 -Q1 -S1 12 / /Q01.3	D16

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

FELD 04
D0978102
22.12.2006 HJ0115ND =L04+S3A S01 ADAM

NO.	Alteration	Date	Name	Std.								
03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	PLUG DIAGRAM	50.3023.01.A3.741.226	V	=L04	
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		CIRCUIT-BREAKER			+S3A	/ S01
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09	D009781.02.604-3.AHA		Sheet 97
						Orig.: iss.for	iss.by:	04	MOTOR FEEDER			98Sh.

TERMINAL DIA., 64 POLIG, CIRCUIT-BREAKER

PIN

+S3B -X02

CABLE MATERIAL H05V-K 1.0mm2 SW

	A	B	C	D	
1	A01	B01	C01	D01	1
2	A02	B02	C02	D02	2
3	A03	B03	C03	D03	3
4	A04	B04	C04	D04	4
5	A05	B05	C05	D05	5
6	A06	B06	C06	D06	6
7	A07	B07	C07	D07	7
8	A08	B08	C08	D08	8
9	A09	B09	C09	D09	9
10	A10	B10	C10	D10	10
11	A11	B11	C11	D11	11
12	A12	B12	C12	D12	12
13	A13	B13	C13	D13	13
14	A14	B14	C14	D14	14
15	A15	B15	C15	D15	15
16	A16	B16	C16	D16	16

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

FELD 04
D0097810 2
22.12.2006 HJ0115MD
=L04+S3B
S01
ADAM

03	AS BUILT	05.12.2006	AD	Date	13.07.2005	US STEEL KOSICE/SLOVAKIA	AREVA	PLUG DIAGRAM	50.3023.01.A3.741.226	V	=L04		
02	Fact.-Rev.	09.11.2005	AD	Drawn	Bräunert	50.3023.01		CIRCUIT-BREAKER			+S3B	/ S01	
01	Approval	20.09.2005	AD	Check	Adam	SUBSTATION T80		PANEL	Typ: 09				Sheet 98
NO.	Alteration	Date	Name	Std.		Orig.:	iss.for	iss.by:	04	MOTOR FEEDER	D009781.02.604-3.AHA		98 Sh.