

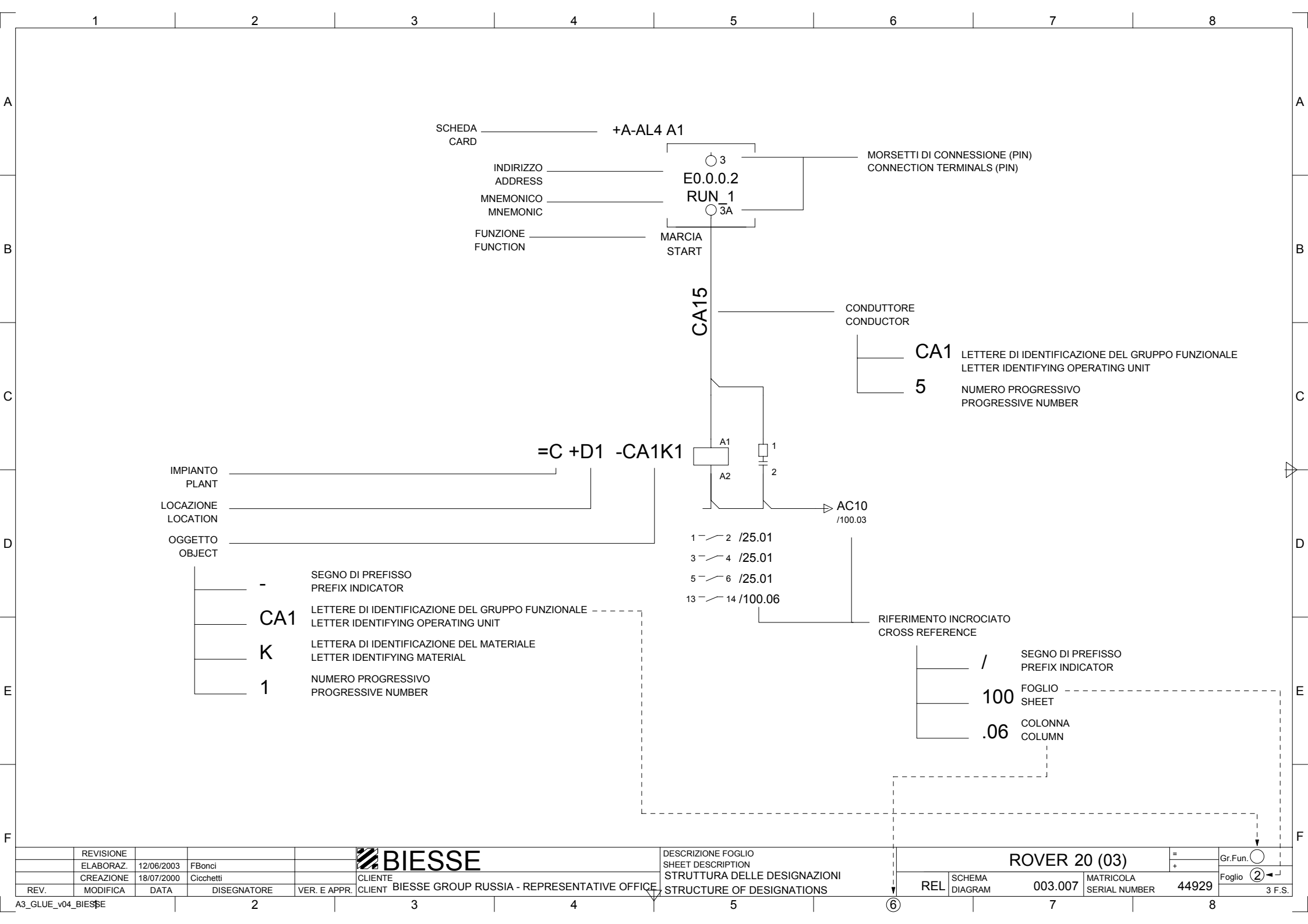
BIESSE

VIA DELLA MECCANICA 16
61100 PESARO
ITALIA

Testata_a3_giue_v03_BIESSE

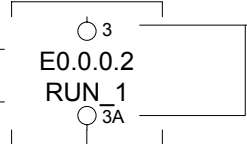
TIPO MACCHINA MACHINE TYPE	ROVER	ALIMENTAZIONE SUPPLY	3/PE AC 380 V 50 Hz	PAESE DI DESTINAZIONE DESTINATION COUNTRY	RUSSIA	=	A				
MODELLO MODEL	20 (03)	POTENZA INSTALLATA INSTALLED POWER RATING	20,3 kW	COMMITTENTE CUSTOMER	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						
MATRICOLA SERIAL NUMBER	44929	CORRENTE DEL CARICO MAGGIORE HIGHER LOAD CURRENT	19 A	ELABORATO DA PROCESSING BY	rsilvestrini	DATA ELABORAZIONE DATE PROCESSING	08/07/2004				
DESCRIZIONE MACCHINA	ROVER 20 (03)	CORRENTE A PIENO CARICO FULL-LOAD CURRENT	36 A	NOTE REMARKS	APPROVAZIONE P.M. 2003/161						
		SCHEMA DIAGRAM	003.007	SCOPO DISEGNO DRAWING SCOPE	REL	N. PAGINE NO. OF PAGES	104	FOGLIO SHEET	1	SEGUE N. CONTINUATION N.	2

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SCHEDA CARD **+A-AL4 A1**

INDIRIZZO ADDRESS
 MNEMONICO MNEMONIC
 FUNZIONE FUNCTION



MORSETTI DI CONNESSIONE (PIN)
 CONNECTION TERMINALS (PIN)

MARCIA START

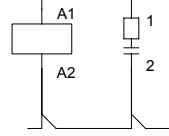
CA15

CONDUTTORE CONDUCTOR

CA1 LETTERE DI IDENTIFICAZIONE DEL GRUPPO FUNZIONALE
 LETTER IDENTIFYING OPERATING UNIT
5 NUMERO PROGRESSIVO
 PROGRESSIVE NUMBER

=C +D1 -CA1K1

IMPIANTO PLANT
 LOCAZIONE LOCATION
 OGGETTO OBJECT



1 - 2 /25.01
 3 - 4 /25.01
 5 - 6 /25.01
 13 - 14 /100.06

RIFERIMENTO INCROCIATO
 CROSS REFERENCE

- SEGNO DI PREFISSO
 PREFIX INDICATOR
CA1 LETTERE DI IDENTIFICAZIONE DEL GRUPPO FUNZIONALE
 LETTER IDENTIFYING OPERATING UNIT
K LETTERA DI IDENTIFICAZIONE DEL MATERIALE
 LETTER IDENTIFYING MATERIAL
1 NUMERO PROGRESSIVO
 PROGRESSIVE NUMBER

/ SEGNO DI PREFISSO
 PREFIX INDICATOR
100 FOGLIO SHEET
.06 COLONNA COLUMN

REVISIONE	ELABORAZ.	12/06/2003	FBonci	
CREAZIONE	18/07/2000	Cicchetti		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO SHEET DESCRIPTION
 STRUTTURA DELLE DESIGNAZIONI
 STRUCTURE OF DESIGNATIONS

ROVER 20 (03)
 REL SCHEMA DIAGRAM 003.007 MATRICOLA SERIAL NUMBER 44929

Gr.Fun.
 Foglio 3 F.S.

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GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING		FOGLIO SHEET	GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING	FOGLIO SHEET
	Copertina Cover		12/06/2003 12/06/2003		1 1	AJ5	PRESA AUSILIARIA AUXILIARY PLUG		30/06/2004 30/06/2004	110 110
	STRUTTURA DELLE DESIGNAZIONI STRUCTURE OF DESIGNATIONS		12/06/2003 12/06/2003		2 2	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	120 120
	Indice: (1 - 200) Contents: (1 - 200)		08/07/2004 08/07/2004		3 3	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	121 121
	Indice: (201 - 880) Contents: (201 - 880)		08/07/2004 08/07/2004		4 4	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	123 123
	Indice: (881 - 30004) Contents: (881 - 30004)		08/07/2004 08/07/2004		5 5	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	124 124
	Lista simboli: (PLC1 - HB)		12/06/2003 12/06/2003		20 20	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	125 125
	Lista simboli: (K - PV)		12/06/2003 12/06/2003		21 21	AL1	CONTROLLO NUMERICO NUMERICAL CONTROL		30/06/2004 30/06/2004	126 126
	Lista simboli: (QL3 - S01)		12/06/2003 12/06/2003		22 22	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	129 129
	Lista simboli: (S00100 - Nucleo)		12/06/2003 12/06/2003		23 23	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	130 130
	TABELLA TABLE		30/06/2004 30/06/2004		47 47	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	133 133
	TABELLA TABLE		30/06/2004 30/06/2004		48 48	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	138 138
	UBICAZIONI POSITIONS		30/06/2004 30/06/2004		49 49	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	139 139
AA1	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY		30/06/2004 30/06/2004		50 50	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	140 140
AA1	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY		30/06/2004 30/06/2004		51 51	AL4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES		30/06/2004 30/06/2004	141 141
AA1	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY		30/06/2004 30/06/2004		53 53	AP1	CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		30/06/2004 30/06/2004	160 160
AA1	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY		30/06/2004 30/06/2004		54 54	AP1	CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		30/06/2004 30/06/2004	161 161
AG1	LINEA 24Vdc 24Vdc LINE		30/06/2004 30/06/2004		90 90	AP1	CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		30/06/2004 30/06/2004	162 162
AG1	LINEA 24Vdc 24Vdc LINE		30/06/2004 30/06/2004		91 91	AP1	CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		30/06/2004 30/06/2004	163 163
AG1	LINEA 24Vdc 24Vdc LINE		30/06/2004 30/06/2004		92 92	AP1	CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		30/06/2004 30/06/2004	164 164
AG1	LINEA 24Vdc 24Vdc LINE		30/06/2004 30/06/2004		93 93	AR1	ATTREZZAGGIO TOOLING		30/06/2004 30/06/2004	170 170
AJ1	LINEA 220Vac 220Vac LINE		30/06/2004 30/06/2004		100 100	AS1	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY		30/06/2004 30/06/2004	200 200
A										
B										
C										
D										
E										
F										
A3_GLUE_v04_BIESSE										

A3_INDICE_V01

Gr.Fun.

Foglio 3

4 F.S.

BIESSE

CLIENTE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO SHEET DESCRIPTION

Indice: (1 - 200)


Contents: (1 - 200)

ROVER 20 (03)

REL SCHEMA DIAGRAM 003.007

MATRICOLA SERIAL NUMBER 44929

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GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING		FOGLIO SHEET	GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING	FOGLIO SHEET
A	AS1	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY		30/06/2004 30/06/2004	201 201	BF1	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING		30/06/2004 30/06/2004	400 400
	AS1	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY		30/06/2004 30/06/2004	202 202	BF1	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING		30/06/2004 30/06/2004	401 401
	AU1	ALIMENTAZIONE AZIONAMENTI DRIVES POWER SUPPLY		30/06/2004 30/06/2004	230 230	CA1	GRUPPO DI FORATURA BORING UNIT		30/06/2004 30/06/2004	450 450
	BA1	BATTUTE AREA SX1 AREA SX1 STOPS		30/06/2004 30/06/2004	300 300	CA1	GRUPPO DI FORATURA BORING UNIT		30/06/2004 30/06/2004	453 453
B	BA1	BATTUTE AREA SX1 AREA SX1 STOPS		30/06/2004 30/06/2004	301 301	CA1	GRUPPO DI FORATURA BORING UNIT		30/06/2004 30/06/2004	454 454
	BA1	BATTUTE AREA SX1 AREA SX1 STOPS		30/06/2004 30/06/2004	303 303	CA1	GRUPPO DI FORATURA BORING UNIT		30/06/2004 30/06/2004	460 460
	BA1	BATTUTE AREA SX1 AREA SX1 STOPS		30/06/2004 30/06/2004	304 304	CJ1	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAG		30/06/2004 30/06/2004	502 502
	BA1	BATTUTE AREA SX1 AREA SX1 STOPS		30/06/2004 30/06/2004	308 308	CJ1	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAG		30/06/2004 30/06/2004	503 503
C	BA2	BATTUTE AREA SX2 AREA SX2 STOPS		30/06/2004 30/06/2004	323 323	CJ1	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAG		30/06/2004 30/06/2004	504 504
	BA2	BATTUTE AREA SX2 AREA SX2 STOPS		30/06/2004 30/06/2004	324 324	CJ1	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAG		30/06/2004 30/06/2004	505 505
	BB1	BATTUTE AREA DX1 AREA DX1 STOPS		30/06/2004 30/06/2004	340 340	CJ1	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAG		30/06/2004 30/06/2004	506 506
	BB1	BATTUTE AREA DX1 AREA DX1 STOPS		30/06/2004 30/06/2004	341 341	SA1	SLOT A SLOT A		30/06/2004 30/06/2004	700 700
D	BB1	BATTUTE AREA DX1 AREA DX1 STOPS		30/06/2004 30/06/2004	343 343	SA1	SLOT A SLOT A		30/06/2004 30/06/2004	701 701
	BB1	BATTUTE AREA DX1 AREA DX1 STOPS		30/06/2004 30/06/2004	344 344	SA1	SLOT A SLOT A		30/06/2004 30/06/2004	703 703
	BB1	BATTUTE AREA DX1 AREA DX1 STOPS		30/06/2004 30/06/2004	348 348	SB1	SLOT B SLOT B		30/06/2004 30/06/2004	711 711
	BB2	BATTUTE AREA DX2 AREA DX2 STOPS		30/06/2004 30/06/2004	363 363	SU1	PRESSURIZZAZIONE PRESSURISATION		30/06/2004 30/06/2004	790 790
E	BB2	BATTUTE AREA DX2 AREA DX2 STOPS		30/06/2004 30/06/2004	364 364	UX1	ASSE X X-AXIS		30/06/2004 30/06/2004	860 860
	BC1	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING		30/06/2004 30/06/2004	380 380	UX1	ASSE X X-AXIS		30/06/2004 30/06/2004	861 861
	BC1	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING		30/06/2004 30/06/2004	381 381	UY1	ASSE Y Y-AXIS		30/06/2004 30/06/2004	870 870
	BD1	ACCOSTATORI AREA SX1 SX1 AREA PUSHERS		30/06/2004 30/06/2004	396 396	UY1	ASSE Y Y-AXIS		30/06/2004 30/06/2004	871 871
F	BE1	ACCOSTATORI AREA DX1 DX1 AREA PUSHERS		30/06/2004 30/06/2004	398 398	UZ1	ASSE Z Z-AXIS		30/06/2004 30/06/2004	880 880

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini				DESCRIZIONE FOGLIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.		
CREAZIONE 08/07/2004		rsilvestrini		CLIENTE				Indice: (201 - 880)		REL		SCHEMA DIAGRAM		003.007		MTRICOLA SERIAL NUMBER
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		Contents: (201 - 880)						5 F.S.

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A

B

C

D

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GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING	FOGLIO SHEET	GR. FUN. FUNCT. UN.	DESCRIZIONE FOGLIO SHEET DESCRIPTION		ELABORAZIONE PROCESSING	FOGLIO SHEET			
A	UZ1	ASSE Z Z-AXIS	30/06/2004 30/06/2004	881 881								
	VB1	POMPA DEL VUOTO 1 VACUUM PUMP 1	30/06/2004 30/06/2004	900 900								
	VB1	POMPA DEL VUOTO 1 VACUUM PUMP 1	30/06/2004 30/06/2004	901 901								
	VC1	LUBRIFICAZIONE LUBRICATION	30/06/2004 30/06/2004	910 910								
B	WD1	BARRIERE FOTOELETTRICHE PHOTOCELL BARRIERS	30/06/2004 30/06/2004	945 945								
	WD1	BARRIERE FOTOELETTRICHE PHOTOCELL BARRIERS	30/06/2004 30/06/2004	946 946								
		Lista I/O: +A-AL4 A1	08/07/2004 08/07/2004	10000 10000								
		Lista I/O: +A-AL4 A2	08/07/2004 08/07/2004	10001 10001								
C		Lista I/O: +A-AL4 A2	08/07/2004 08/07/2004	10002 10002								
		Lista I/O: +D-AL4A3 I/O list: +D-AL4A3	08/07/2004 08/07/2004	10003 10003								
		Lista I/O: +D-AL4A3 I/O list: +D-AL4A3	08/07/2004 08/07/2004	10004 10004								
		Lista I/O: +D-AL4 A4	08/07/2004 08/07/2004	10005 10005								
D		Lista I/O: +F-AL4A6 I/O list: +F-AL4A6	08/07/2004 08/07/2004	10006 10006								
		Lista I/O: +F-AL4A7 I/O list: +F-AL4A7	08/07/2004 08/07/2004	10007 10007								
		Lista I/O: +F-AL4 A8	08/07/2004 08/07/2004	10008 10008								
		Lista materiali: (+A-AL1A1 - +A-AS1K1) Materials list: (+A-AL1A1 - +A-AS1K1)	08/07/2004 08/07/2004	30000 30000								
E		Lista materiali: (+A-AS1K2 - +A-WD1K1) Materials list: (+A-AS1K2 - +A-WD1K1)	08/07/2004 08/07/2004	30001 30001								
		Lista materiali: (+A-WD1K2 - +A-AG1Q4) Materials list: (+A-WD1K2 - +A-AG1Q4)	08/07/2004 08/07/2004	30002 30002								
		Lista materiali: (+A-AG1Q6 - +A-VB2Q1) Materials list: (+A-AG1Q6 - +A-VB2Q1)	08/07/2004 08/07/2004	30003 30003								
		Lista materiali: (+A-AG1R1 - +A-VB1Z1) Materials list: (+A-AG1R1 - +A-VB1Z1)	08/07/2004 08/07/2004	30004 30004								
F												
	REVISIONE				DESCRIZIONE FOGLIO SHEET DESCRIPTION			= A	Gr.Fun.			
	ELABORAZ.	08/07/2004	rsilvestrini		ROVER 20 (03)			+				
	CREAZIONE	08/07/2004	rsilvestrini		Indice: (881 - 30004)				Foglio 5			
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	20 F.S.

A3_INDICE_V01


BIESSE

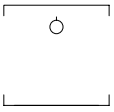

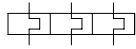
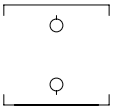









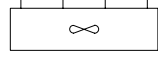








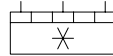

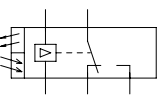


CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

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ROVER 20 (03)

REL SCHEMA DIAGRAM 003.007 MATRICOLA SERIAL NUMBER 44929

Gr.Fun. Foglio 5 20 F.S.

	1	2	3	4	5	6	7	8
A								
A	Morsetto PLC a 1 connessione 1-connection PLC terminal			B	ENCODER ENCODER	F	Relè termico tripolare Tripolar thermal relay	
A				B		G		
A	Morsetto PLC a 2 connessioni 2-connection PLC terminal			B	RESOLVER RESOLVER	G	Alimentatore FEEDER	
B				C		G		
B	Termocoppia THERMOCOUPLE			C	CONDENSATORE CAPACITOR	G	BATTERIA DI ACCUMULATORI BATTERY CELLS	
C				C		H		
C	Contatto termico NC NC thermal contact			C	CONDENSATORE POLARIZZATO POLARIZED CAPACITOR	H	LAMPADA DI SEGNALAZIONE INDICATOR LIGHT	
B				E		H		
B	Termostato NC NC thermostat			E	Ventilatore trifase Three-phase fan	H	SIRENA Siren	
D				E		H		
D	Trasmettitore ottico Optical transmitter			E	ELEMENTO RISCALDANTE HEATING ELEMENT	H	LED LED	
B				E		H		
B	Ricevitore ottico NO NO optical receiver			E	Lampada al neon con collegamento PE Neon lamp with PE connection	H	Orologio Clock	
E				E		H		
E	Fotocellula a riflessione NO NO reflection photocell			E	CONDIZIONATORE AIR CONDITIONER	H	Cicalino Buzzer	
F				F		H		
F	Fotocellula con contatto in scambio Photocell with change-over contact			F	Fusibile unipolare Unipolar fuse	H	LAMPADA DI SEGNALAZIONE LAMPEGGIANTE BLINKING INDICATOR LIGHT	

Lista simboli_v01



CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
SHEET DESCRIPTION
Lista simboli: (PLC1 - HB)

ROVER 20 (03)

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Gr.Fun.
					Foglio 20
					21 F.S.

	1	2	3	4	5	6	7	8
A	K Relè ausiliario/potenza Auxiliary/power relay		K? Contatto NO rit. alla diseccitazione NO contact de-energising delayed		M Motore in C.C. DC motor			
	K Temporizzatore ritard. eccitazione Timer energising delayed		K? Contatto NO anticipato NO contact advanced		M MOTORE TRIFASE (3 TERMINALI) THREE-PHASE MOTOR (3 TERMINALS)			
B	K Temporizzatore ritard. diseccitazione Timer de-energising delayed		K? Contatto NC ritardato NC contact delayed		M Motore a collettore Commutator motor			
C	K RELE A RIMANENZA REMANENT RELAY		K? Contatto in scambio 2 vie 2-way change-over contact		M Motore con contatto termico Motor with thermal contact			
	K Relè di max. tensione Max. voltage relay		K? Contatto in scambio ritardato alla diseccitazione Change-over contact de-energising delayed		M Motore trifase (ad una velocità) con freno monofase Three-phase motor (single speed) with monophas brake			
D	K? Contatto di potenza per contattore NO Power contact for NO contactor		K? Contatto di potenza per contattore con interblocco Power contact for interlocking contactor		M Motore trifase collegato a triangolo Delta-connection three-phase motor			
	K? CONTATTO NO NO CONTACT		L Induttore INDUCTOR		M Motore trifase collegato a stella Star-connection three-phase motor			
E	K? CONTATTO NC NC CONTACT		L Induttanza a nucleo magnetico Core inductor		P CONTAORE HOURS METER			
F	K? Contatto NO rit. eccitazione NO contact energising delayed		M MOTORE TRIFASE (6 TERMINALI) THREE-PHASE MOTOR (6 TERMINALS)		P Voltmetro Voltmeter			

Lista simboli_v01

BIESSE

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
Lista simboli: (K - PV)

ROVER 20 (03)

REL

SCHEMA
DIAGRAM

003.007

MATRICOLA
SERIAL NUMBER

44929

Gr.Fun.

Foglio 21

22 F.S.

	1	2	3	4	5	6	7	8
A	Q Salvatore Engine saver 	S Pulsante NO NO button 	S Pulsante a fungo NC con sgancio rotativo NC mushroom button with rotation release 					
	Q Magnetotermico sezionatore tripolare comando rotativo Rot. command % sect. thermomag. circuit breaker 	S Selettore rotativo NO 2 posizioni mantenute NO rotating selector 2 positions maintained 	S Selettore rotativo a chiave NO 2 posizioni mantenute NO rotating key selector 2 positions maintained 					
B	Q Magnetotermico unipolare Unipolar thermomag. circuit breaker 	S FINECORSA MECCANICO NC NC MECH. LIMIT SWITCH 	S Finecorsa meccanico NO comando a tirante Rod command NO mech. limit switch 					
	Q Differenziale puro bipolare Bipolar pure differential 	S Selettore a chiave NO NO key selector 	S Selettore rotativo NO 3 posizioni mantenute NO rotating selector 3 positions maintained 					
C	Q? Contatto NO aux. magnetotermico NO aux. thermomagnetic contact 	S Pressostato NO NO pressure switch 	S Selettore rotativo NO 2 posizioni con ritorno NO rotating selector 2 positions with return 					
	Q? Contatto NC aux. magnetotermico Aux. thermomagnetic NC contact 	S Interruttore a pedale NO NO foot switch 	S Finecorsa meccanico NC a manovra positiva Pos. transition NC mech. limit switch 					
D	R Resistenza RESISTANCE 	S Finecorsa a camma NC NC cam limit switch 	S Selettore rotativo NO 3 posizioni: mantenuta in 1 con ritorno in 2 NO rotating selector 3 positions: maintained in 1 return in 2 					
E	R RESISTORE REGOLABILE ADJUSTABLE RESISTOR 	S Galleggiante NO NO float 	S Selettore rotativo NO 3 posizioni: con ritorno in 1 mantenuta in 2 NO rotating selector 3 positions: return in 1 maintained in 2 					
F	R POTENZIOMETRO CON CONTATTO MOBILE POTENTIOMETER WITH MOVABLE CONTACT 	S Proximity indutt. o capacit. NO NO ind. or cap. proximity detector 	S? Contatto NO per selettore 2 posizioni NO contact for 2-position selector 					

Lista simboli_v01

BIESSE

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
Lista simboli: (QL3 - S01)

ROVER 20 (03)

REL SCHEMA DIAGRAM 003.007 MATRICOLA SERIAL NUMBER 44929

Gr.Fun.

Foglio 22

23 F.S.

	1	2	3	4	5	6	7	8
A	S? Contatto NO per selettore 5 posizioni NO contact for 5-position selector		X	PRESA CON SPINA SOCKET AND PLUG		Z	VARISTORE VARISTOR	
	T Trasformatore di tensione VOLTAGE TRANSFORMER		X	PRESA TRIPOLARE CON CONTATTO PE THREE-POLE OUTLET WITH PE CONTACT		Z	Filtro RC RC filter	
B	T TRASF. TRIFASE SECONDARI 2 MONO 1 TRIFASE TRANSF. SECOND: 2 MONO 1 THREEPHASE		X	Spina 2P+T Plug 2P+T		Z	Filtro di rete trifase Three-phase supply network filter	
C	T Autotrasformatore trifase Three-phase autotransformer		X	Morsetti con resistenza e led Terminals with resistor and LEDs		Z	Nucleo di ferrite con avvolgimento FERRITE CORE WITH WINDING	
	T Trasformatore prim. mono - sec. monofase Prim. mono - sec. monophase transformer		X	Morsetto terminale End terminal				
D	T Trasformatore di corrente CURRENT TRANSFORMER		X	SPAZZOLA BRUSH				
	V DIODO DIODE		Y	ELETTOVALVOLA ELECTROVALVE				
E	V DIODO ZENER ZENER DIODE		Y	Freno elettromagnetico Electromagnetic brake				
F	X MORSETTO TERMINAL		Y	Elettrovalvola doppia bobina Double coil electrovalve				

Lista simboli_v01

BIESSE

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
SHEET DESCRIPTION
Lista simboli: (S00100 - Nucleo)

ROVER 20 (03)

Gr.Fun.

Foglio 23

47 F.S.

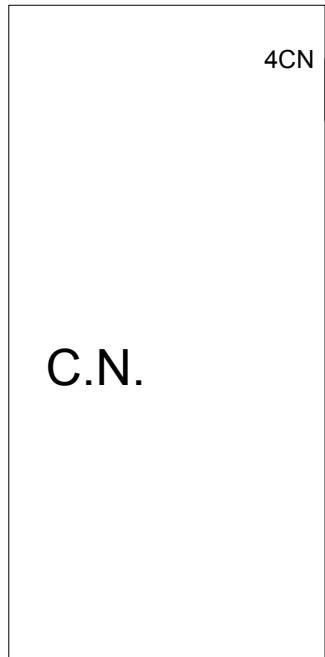
REL

SCHEMA
DIAGRAM

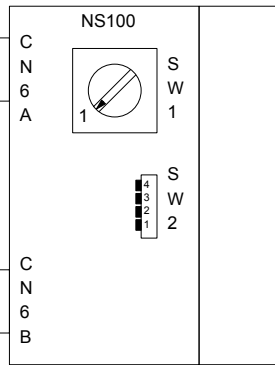
003.007

MATRICOLA
SERIAL NUMBER

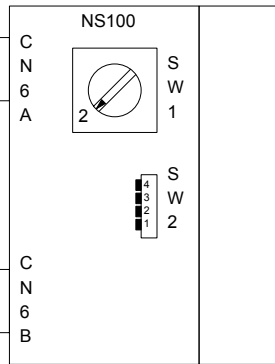
44929



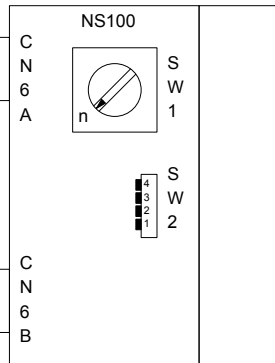
SERVOPACK 1



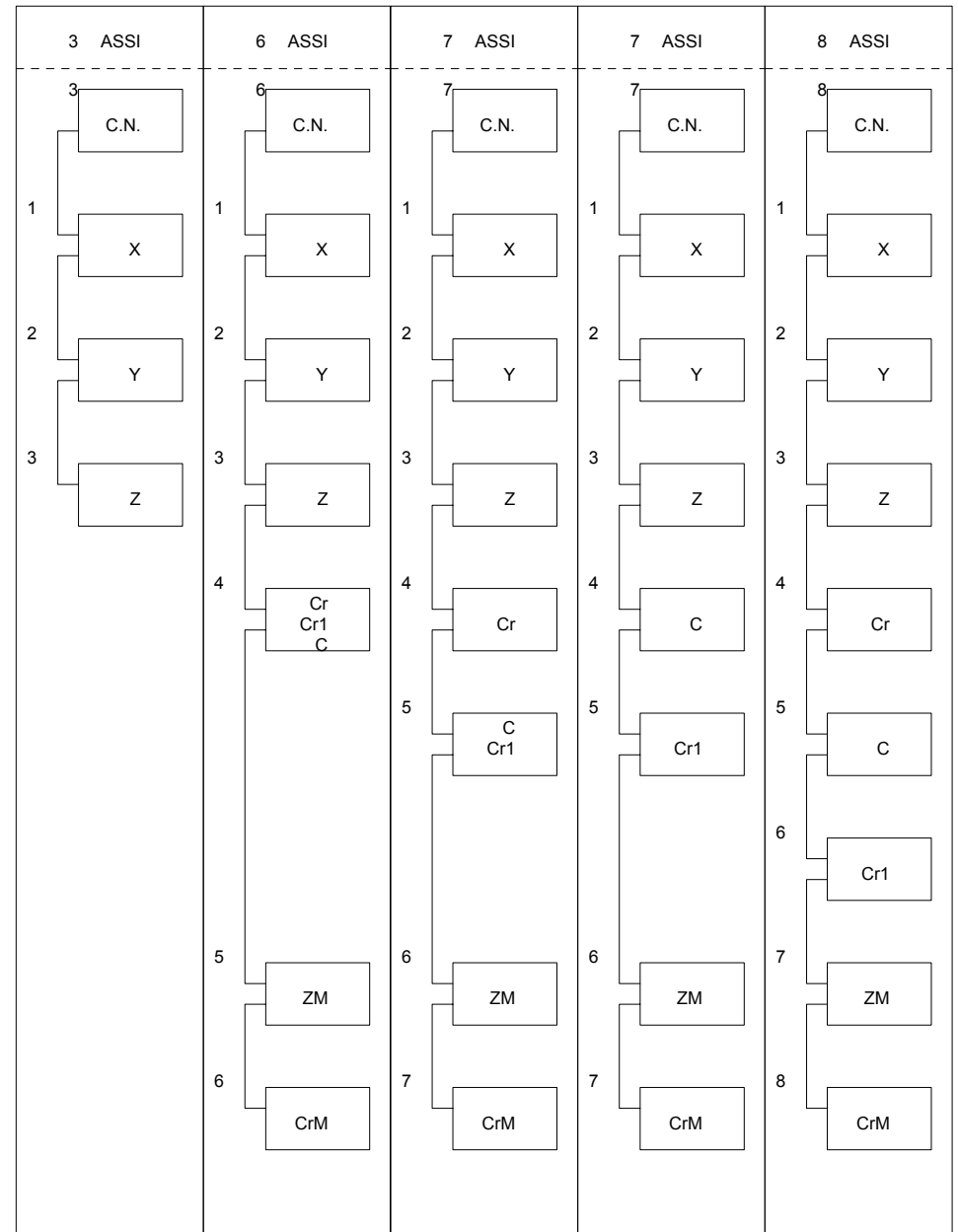
SERVOPACK 2



SERVOPACK n



CONFIGURAZIONE



REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
000	21/02/2002	OCeccolini	
REV.	MODIFICA	DATA	DISEGNATORE

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 TABELLA

ROVER 20 (03)			= A	Gr.Fun.
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929

1

2

3

4

5

6

7

8

A

A

B

B

C

C

D

D


E

E

F

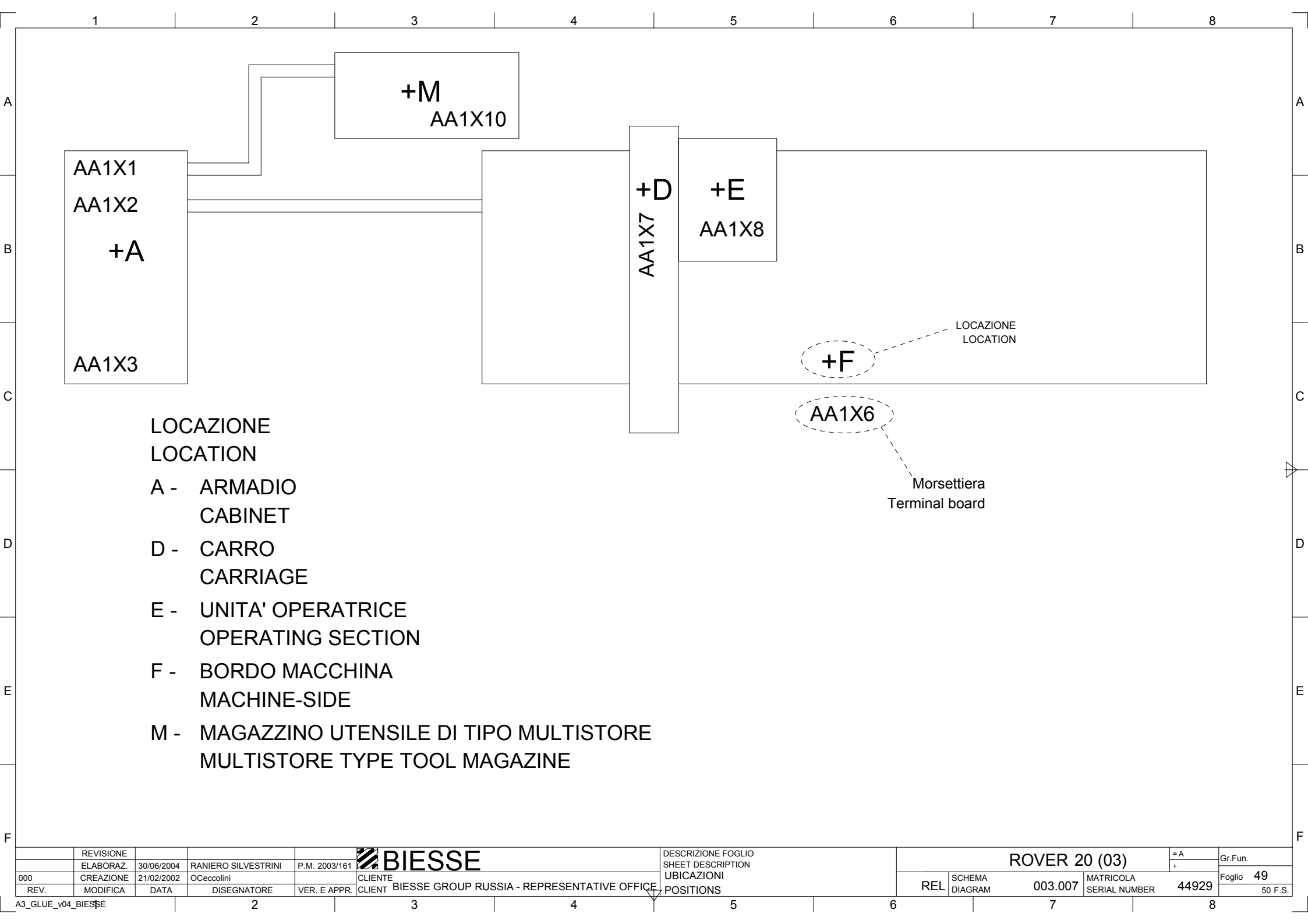
F

	IT	EN	TE	FR	SP	P
BU	BLU	BLUE	BLAU	BLEU	AZUL	AZUL
BK	NERO	BLACK	SCHWARZ	NOIR	NEGRO	PRETO
OG	ARANCIO	ORANGE	ORANGE	ORANGE	ANARANJADO	LARANJA
BN	MARRONE	BROWN	BRAUN	MARRON	MARRON	CASTANHO
GN	VERDE	GREEN	GRUN	VERT	VERDE	VERDE
WH	BIANCO	WHITE	WEIB	BLANCHE	BLANCO	BRANCO
PK	ROSA	PINK	ROSA	ROSE	ROSA	ROSA
YE	GIALLO	YELLOW	GELB	JAUNE	AMARILLO	AMARELO
VT	VIOLA	VIOLET	VIOLET	VIOLET	VIOLETA	VIOLETA
RD	ROSSO	RED	ROT	ROUGE	ROJO	VERMELHO
GY	GRIGIO	GREY	GRAU	GRIS	GRIS	CIZENTO
	BEIGE	BEIGE	BEIGE	BEIGE	BEIGE	BEIGE
SH	SCHERMO	SHIELD	SCHIRM	ECRAN	PROTECTOR	BLINDAGEM

REVISIONE					
ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		BIESSE
000	CREAZIONE	21/02/2002	OCeccolini	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT

DESCRIZIONE FOGLIO	ROVER 20 (03)
SHEET DESCRIPTION	
TABELLA	
TABLE	

REL	SCHEMA	003.007	MATRICOLA	44929	Gr.Fun.
DIAGRAM			SERIAL NUMBER		Foglio 48
					49 F.S.



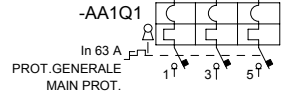
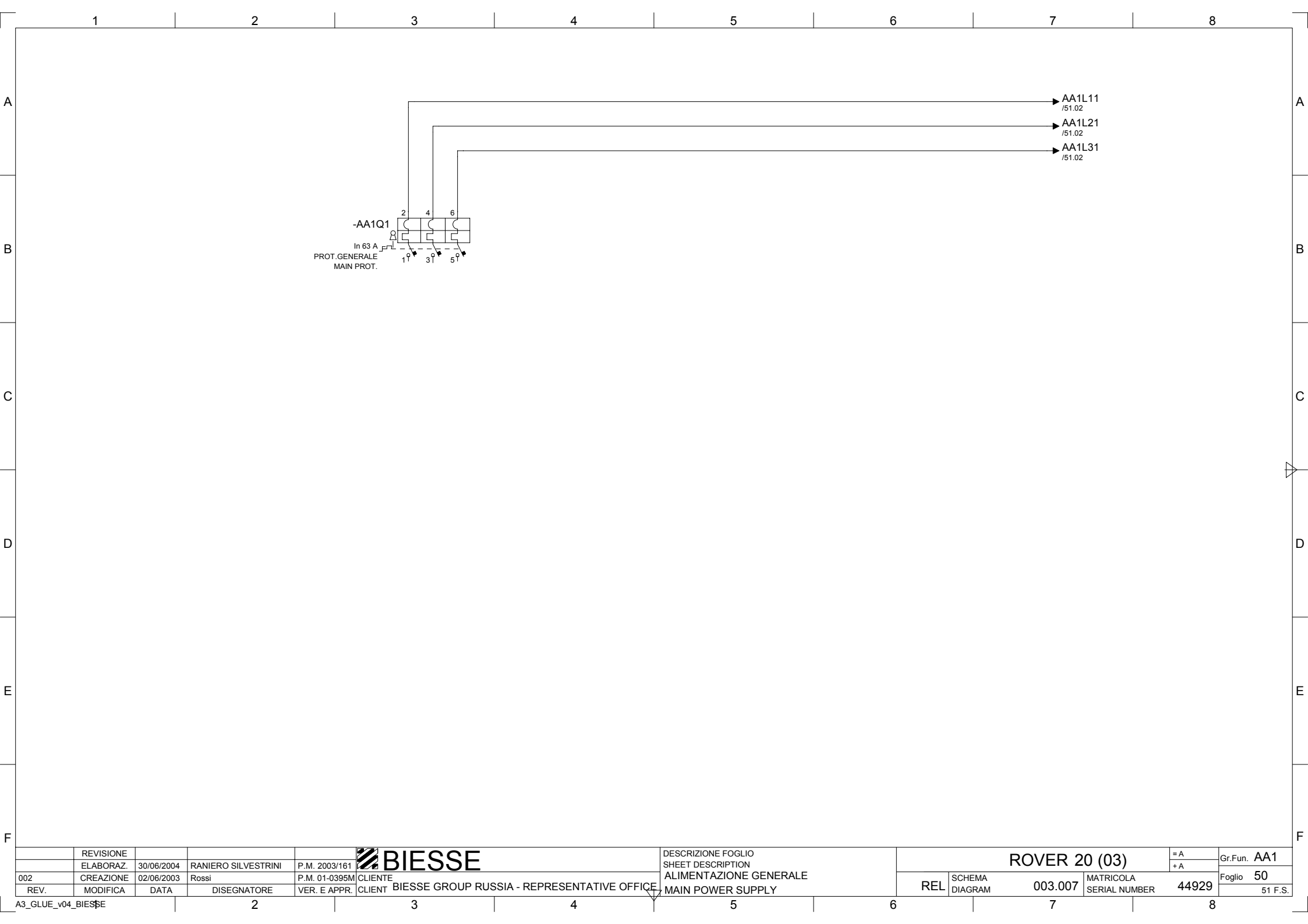
LOCAZIONE
LOCATION

- A - ARMADIO
CABINET
- D - CARRO
CARRIAGE
- E - UNITA' OPERATRICE
OPERATING SECTION
- F - BORDO MACCHINA
MACHINE-SIDE
- M - MAGAZZINO UTENSILE DI TIPO MULTISTORE
MULTISTORE TYPE TOOL MAGAZINE

LOCAZIONE
LOCATION

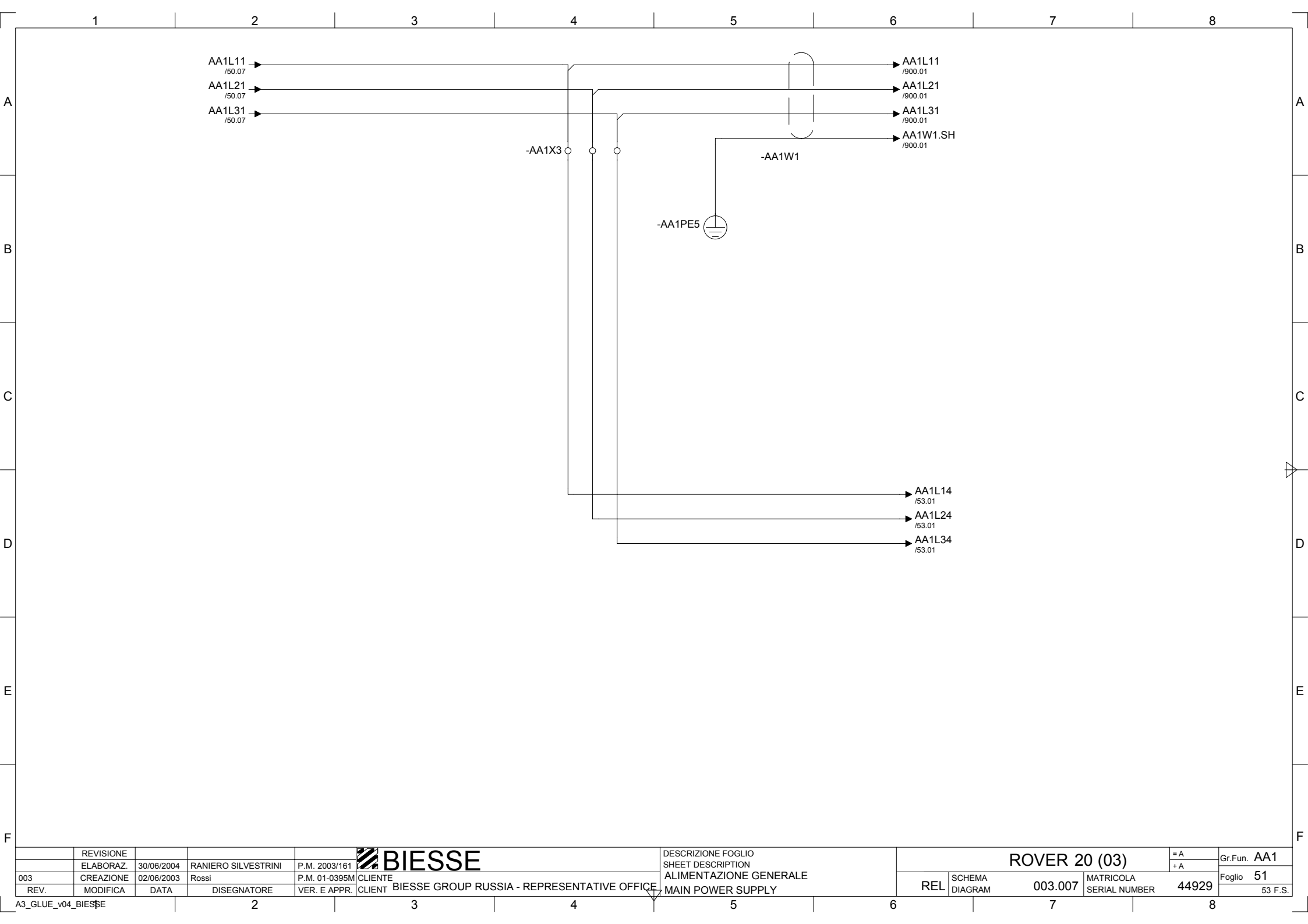
Morsettiera
Terminal board

REVISIONE		30/06/2004		RANIERO SILVESTRINI		P.M. 2003/161		BIESSE		DESCRIZIONE FOGLIO			ROVER 20 (03)		= A		Gr.Fun.
ELABORAZ.		21/02/2002		OCeccolini						SHEET DESCRIPTION					+		
000		CREAZIONE		21/02/2002		OCeccolini		CLIENTE		UBICAZIONI			MATRICOLA		44929		Foglio 49
REV.		MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE			REL		SCHEMA		50 F.S.
										DIAGRAM			003.007		SERIAL NUMBER		



AA1L11
/51.02
AA1L21
/51.02
AA1L31
/51.02

REVISIONE		30/06/2004		RANIERO SILVESTRINI		P.M. 2003/161				DESCRIZIONE FOGLIO SHEET DESCRIPTION ROVER 20 (03)			= A		Gr.Fun. AA1			
ELABORAZ.		02/06/2003		Rossi		P.M. 01-0395M							+ A		Foglio 50			
002 CREAZIONE		02/06/2003		Rossi		P.M. 01-0395M		CLIENTE		ALIMENTAZIONE GENERALE MAIN POWER SUPPLY			MATRICOLA		44929		Foglio 50	
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE					REL SCHEMA DIAGRAM		003.007		SERIAL NUMBER	



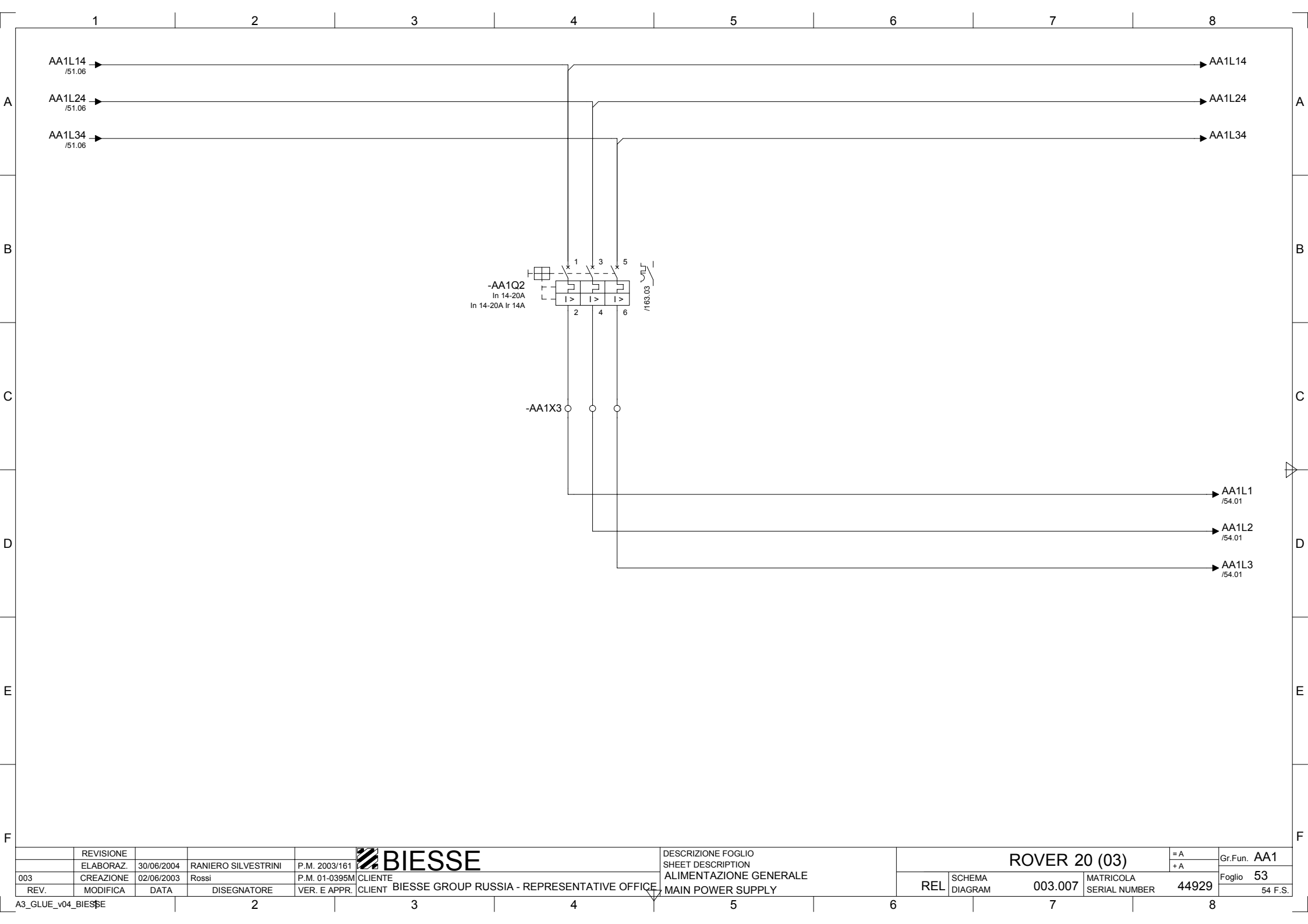
	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

BIESSE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
ALIMENTAZIONE GENERALE
MAIN POWER SUPPLY

ROVER 20 (03)			= A	Gr.Fun. AA1
REL	SCHEMA DIAGRAM	003.007	+ A	Foglio 51
			MATRICOLA SERIAL NUMBER	44929

53 F.S.

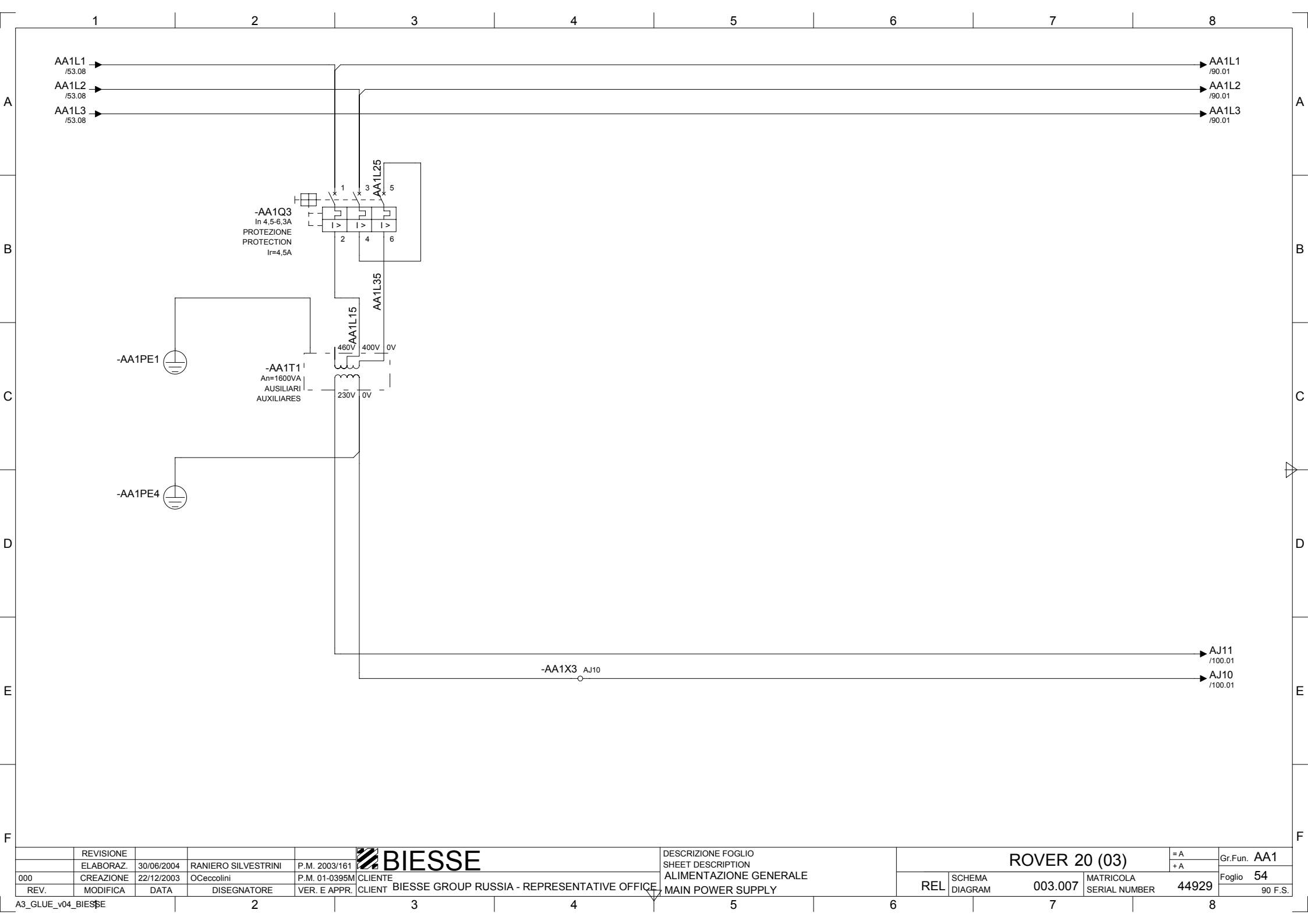


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT

BIESSE
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

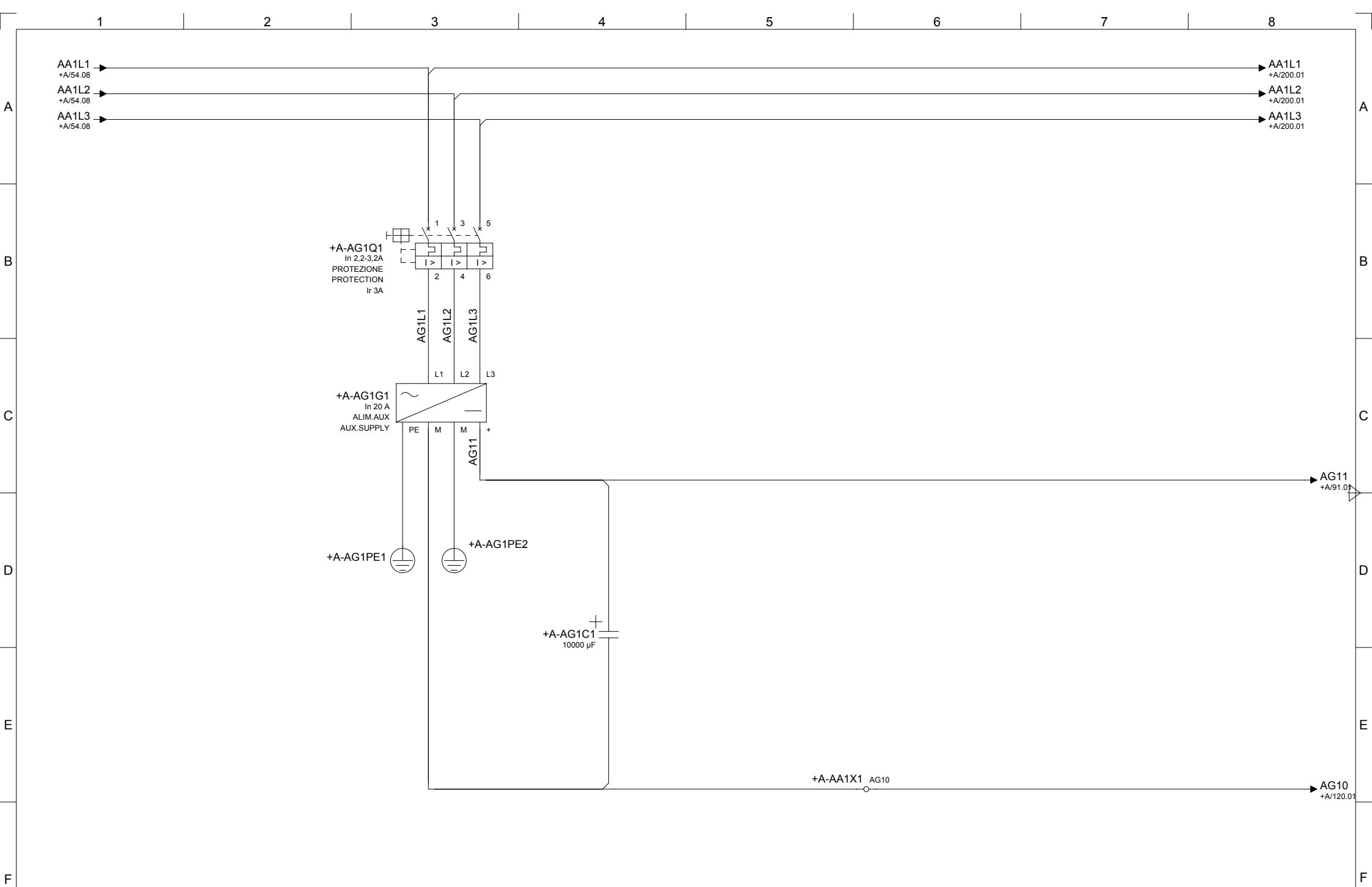
DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
ALIMENTAZIONE GENERALE
 MAIN POWER SUPPLY

			ROVER 20 (03)		= A	Gr.Fun. AA1
REL	SCHEMA		MATRICOLA	SERIAL NUMBER	+ A	Foglio 53
	DIAGRAM	003.007		44929		54 F.S.

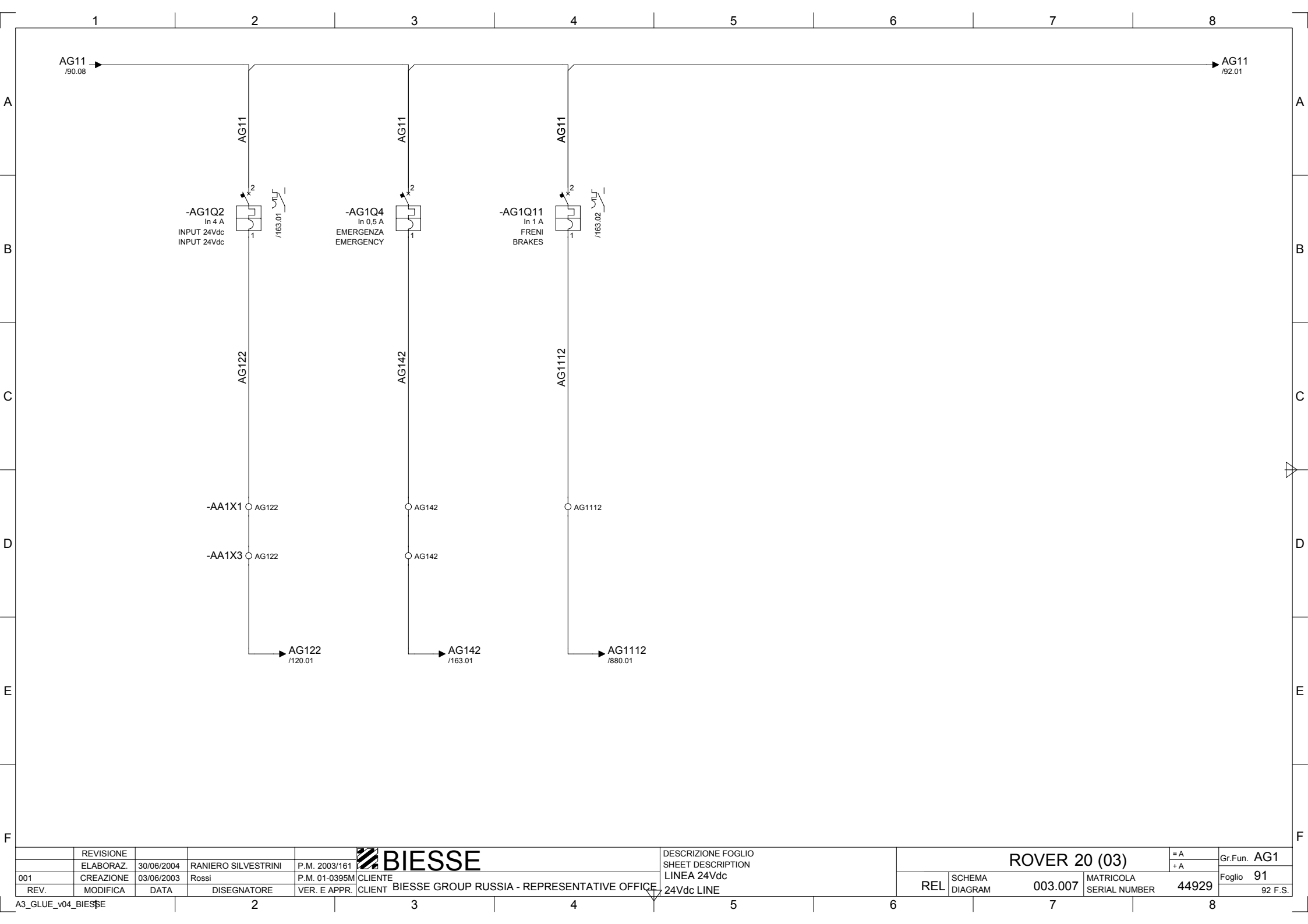


	REVISIONE					DESCRIZIONE FOGLIO				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		SHEET DESCRIPTION				
000	CREAZIONE	22/12/2003	OCeccolini	P.M. 01-0395M		CLIENTE	ALIMENTAZIONE GENERALE			
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		CLIENT	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE			

				ROVER 20 (03)		= A	Gr.Fun. AA1
						+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 54		
						90 F.S.	

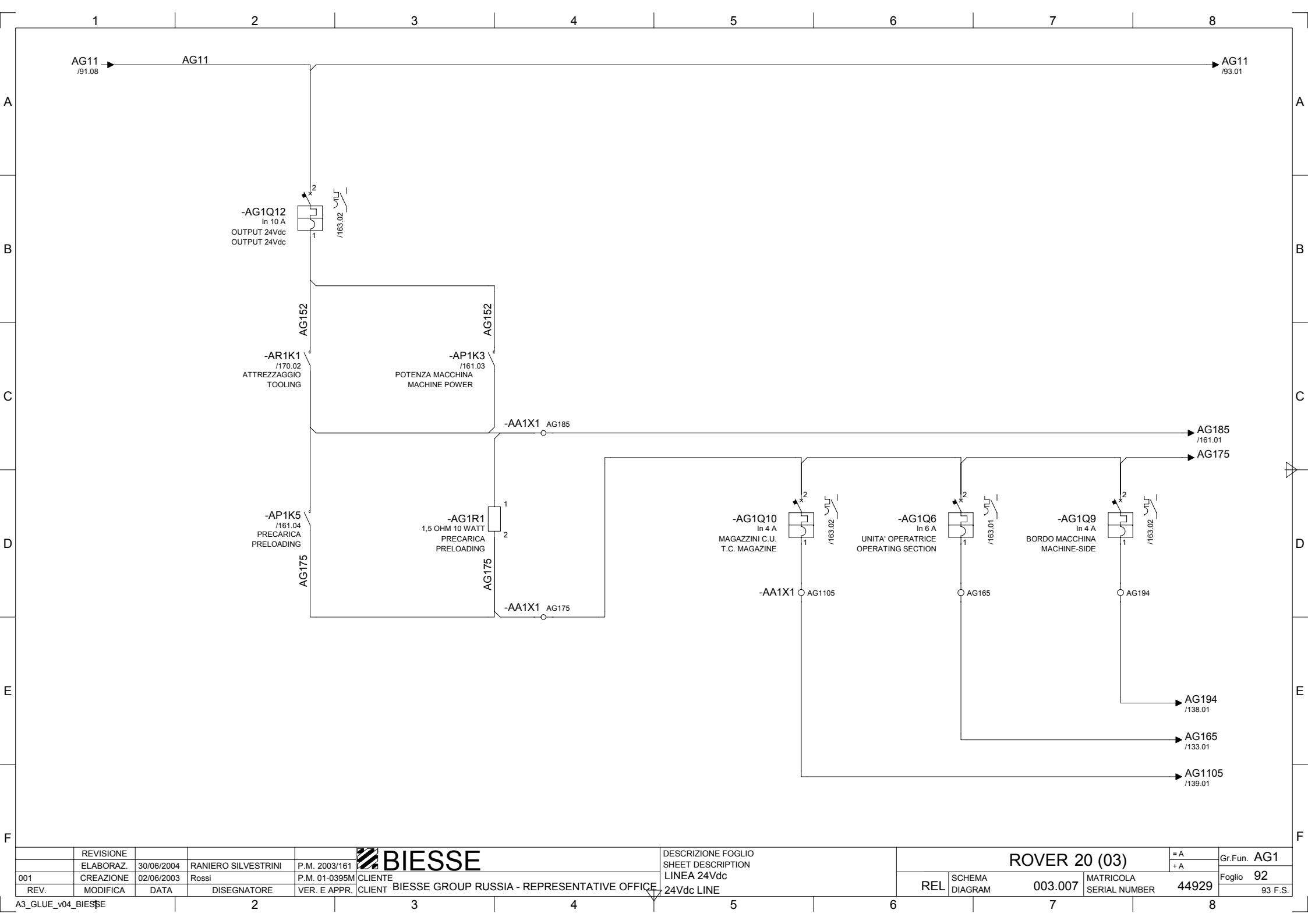


						DESCRIZIONE FOLGIO			ROVER 20 (03)		= A	Gr.Fun. AG1	
						SHEET DESCRIPTION			LINEA 24Vdc		+	Foglio 90	
000	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	CLIENTE			REL	SCHEMA	003.007	MATRICOLA	44929	91 F.S.
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE				DIAGRAM		SERIAL NUMBER		



	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION LINEA 24Vdc 24Vdc LINE
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		
001	CREAZIONE	03/06/2003	Rossi	P.M. 01-0395M		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		

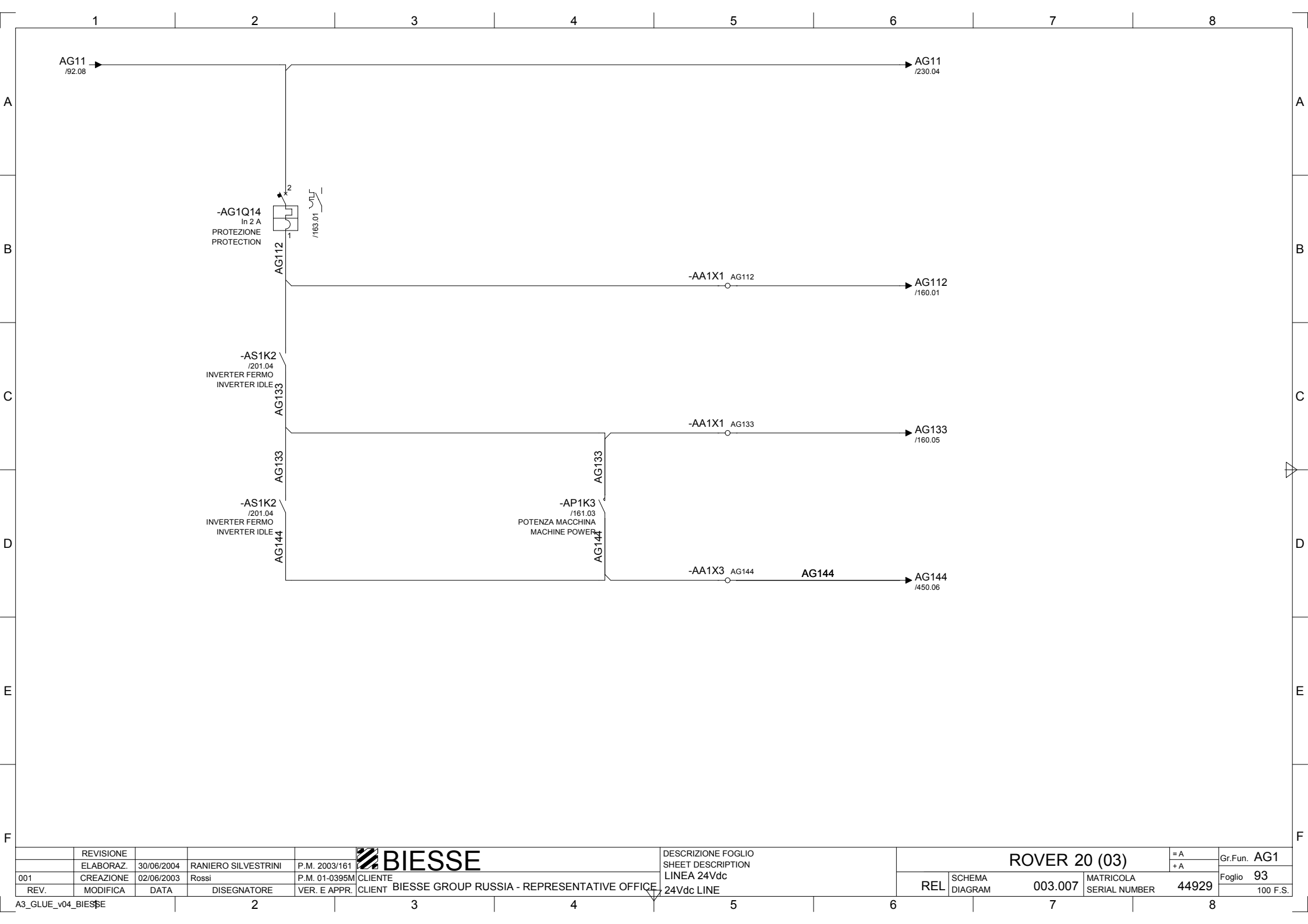
				ROVER 20 (03)		= A	Gr.Fun. AG1
						+ A	Foglio 91
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929			
						92 F.S.	



	REVISIONE					
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		
001	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M		CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
SHEET DESCRIPTION
LINEA 24Vdc
24Vdc LINE

ROVER 20 (03)				= A	Gr.Fun. AG1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 92
					93 F.S.

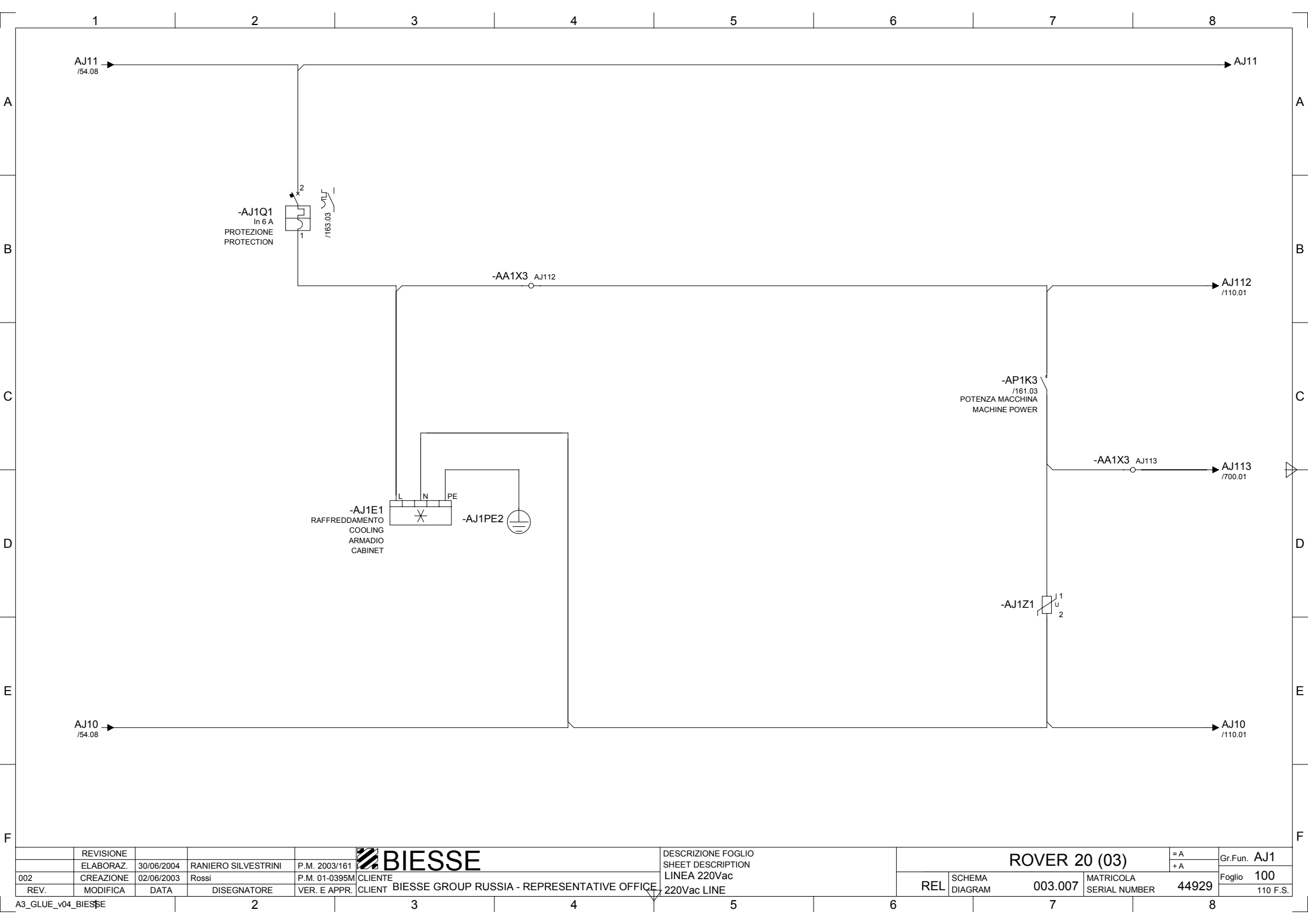


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
001	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

BIESSE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
LINEA 24Vdc
24Vdc LINE

ROVER 20 (03)			= A	Gr.Fun. AG1
REL	SCHEMA DIAGRAM	003.007	+ A	Foglio 93
			MATRICOLA SERIAL NUMBER	44929
				100 F.S.



AJ11
/54.08

AJ11

-AJ1Q1
In 6 A
PROTEZIONE
PROTECTION



-AA1X3 AJ112

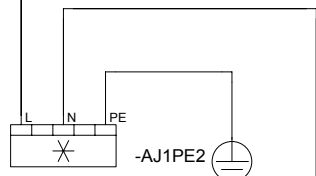
AJ112
/110.01

-AP1K3
/161.03
POTENZA MACCHINA
MACHINE POWER

-AA1X3 AJ113

AJ113
/700.01

-AJ1E1
RAFFREDDAMENTO
COOLING
ARMADIO
CABINET



-AJ1PE2

-AJ1Z1



AJ10
/54.08

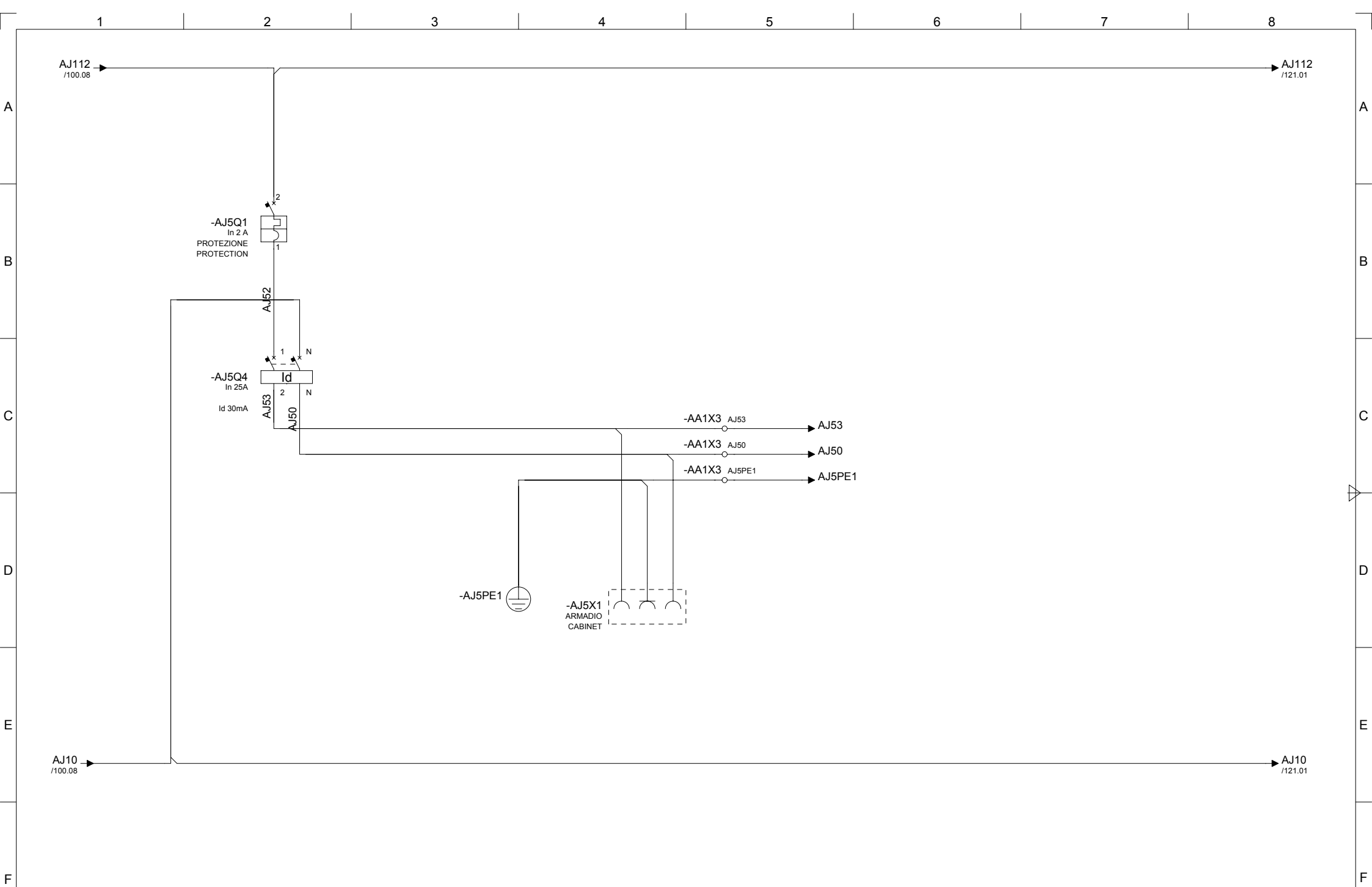
AJ10
/110.01

REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
002	02/06/2003	Rossi	P.M. 01-0395M
REV.	MODIFICA	DATA	VER. E APPR.

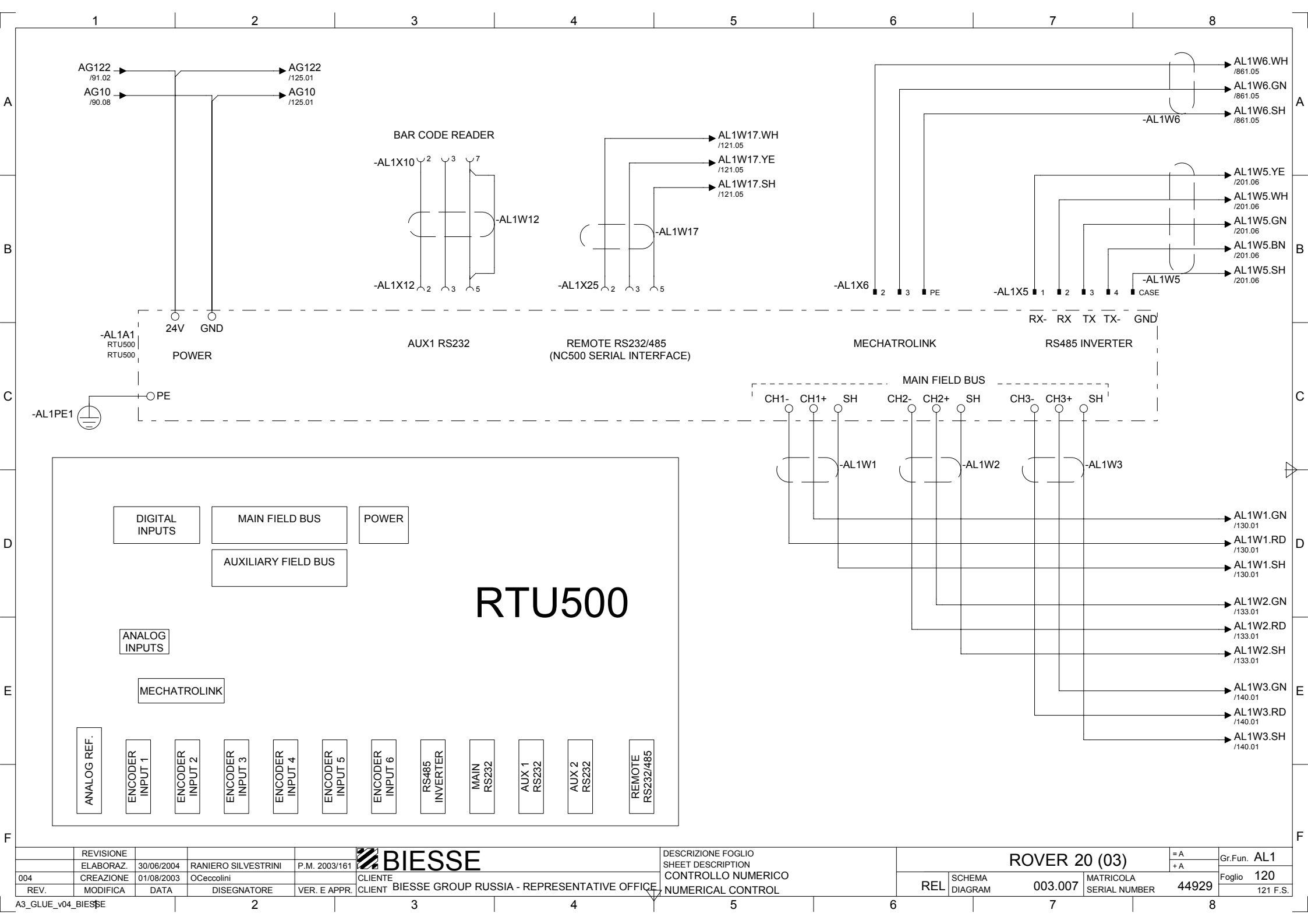
BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 LINEA 220Vac
 220Vac LINE

ROVER 20 (03)			= A	Gr.Fun. AJ1	
			+ A	Foglio 100	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	110 F.S.



REVISIONE		30/06/2004		RANIERO SILVESTRINI		P.M. 2003/161				DESCRIZIONE FOGLIO		ROVER 20 (03)		= A		Gr.Fun. AJ5					
ELABORAZ.		02/06/2003		Rossi		P.M. 01-0395M				SHEET DESCRIPTION		PRESA AUSILIARIA		MATRICOLA		+ A		Foglio 110			
001		CREAZIONE		DISEGNATORE		VER. E APPR.		CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		AUXILIARY PLUG		REL		SCHEMA DIAGRAM		003.007		SERIAL NUMBER 44929		120 F.S.	



RTU500

DIGITAL INPUTS MAIN FIELD BUS POWER

AUXILIARY FIELD BUS

ANALOG INPUTS

MECHATROLINK

- ANALOG REF.
- ENCODER INPUT 1
- ENCODER INPUT 2
- ENCODER INPUT 3
- ENCODER INPUT 4
- ENCODER INPUT 5
- ENCODER INPUT 6
- RS485 INVERTER
- MAIN RS232
- AUX 1 RS232
- AUX 2 RS232
- REMOTE RS232/485

REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
ELABORAZ.	01/08/2003	OCeccolini	
004 CREAZIONE			
REV. MODIFICA	DATA	DISEGNATORE	VER. E APPR.

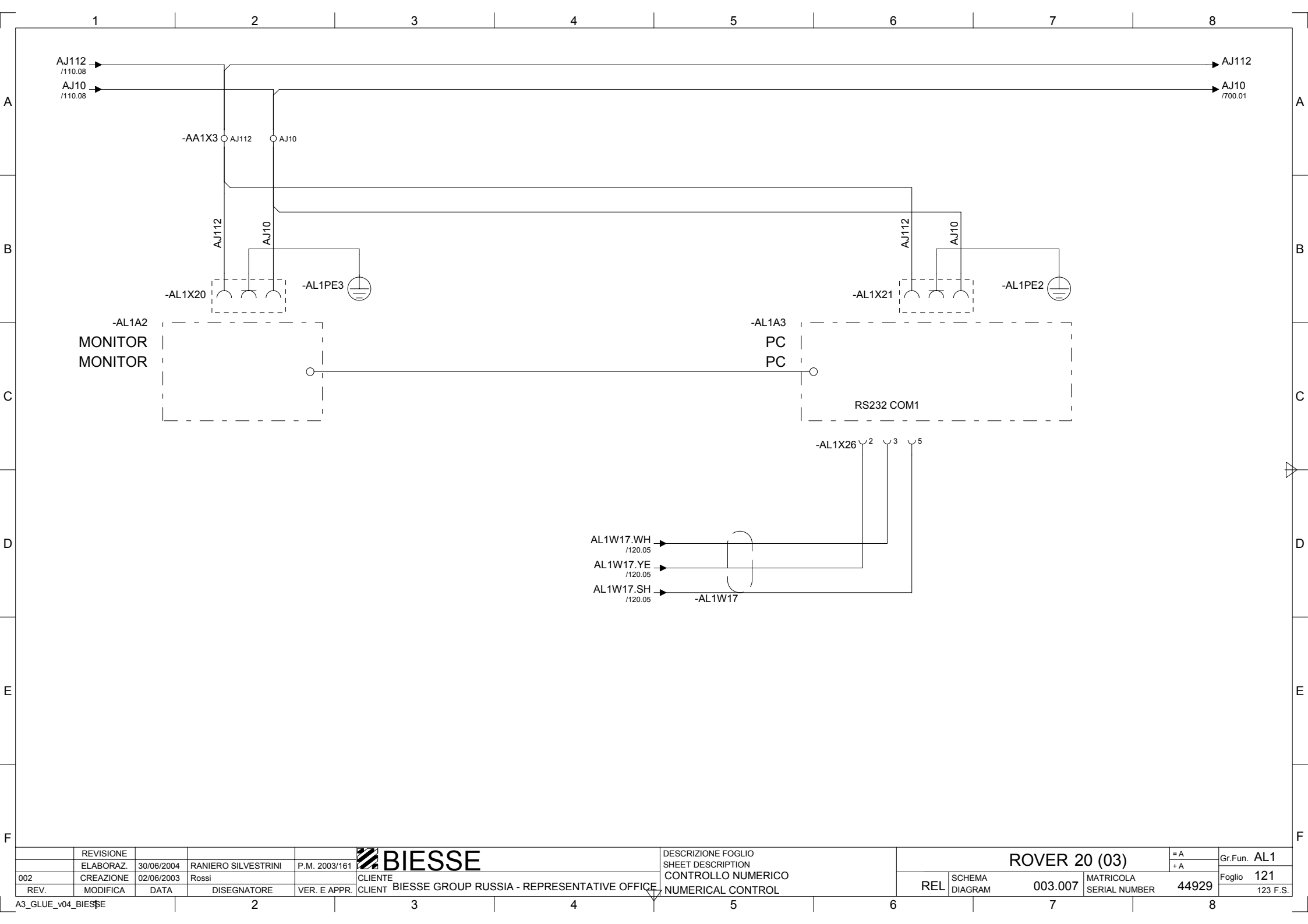
BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 CONTROLLO NUMERICO
 NUMERICAL CONTROL

ROVER 20 (03)

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929
-----	----------------	---------	-------------------------	-------

= A	Gr.Fun. AL1
+ A	Foglio 120
	121 F.S.



	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
002	CREAZIONE	02/06/2003	Rossi	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
CONTROLLO NUMERICO
NUMERICAL CONTROL

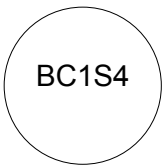
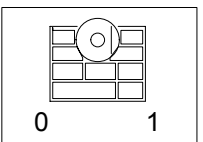
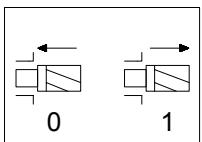
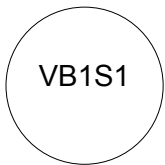
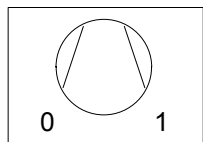
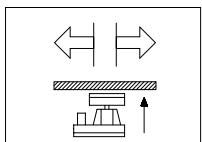
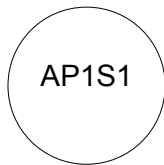
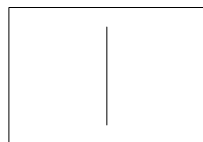
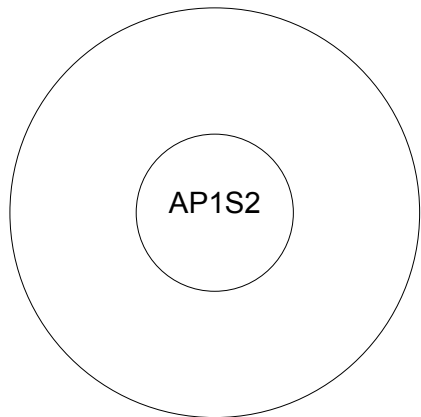
ROVER 20 (03)			= A	Gr.Fun. AL1
REL	SCHEMA DIAGRAM	003.007	+ A	Foglio 121
			MATRICOLA SERIAL NUMBER	44929

123 F.S.

AL1S1

PULSANTIERA
PUSHBUTTON PANEL

CONTROLLO NUMERICO
NUMERICAL CONTROL



CLEAR



+



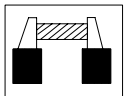
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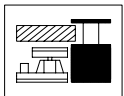
STOP

START

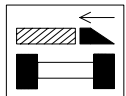
RESET



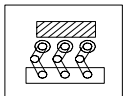
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2



3

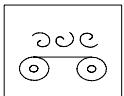


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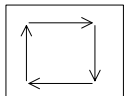


CLR

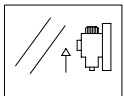
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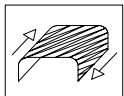
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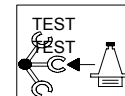
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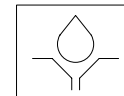
8



9



10



11



12



13



14



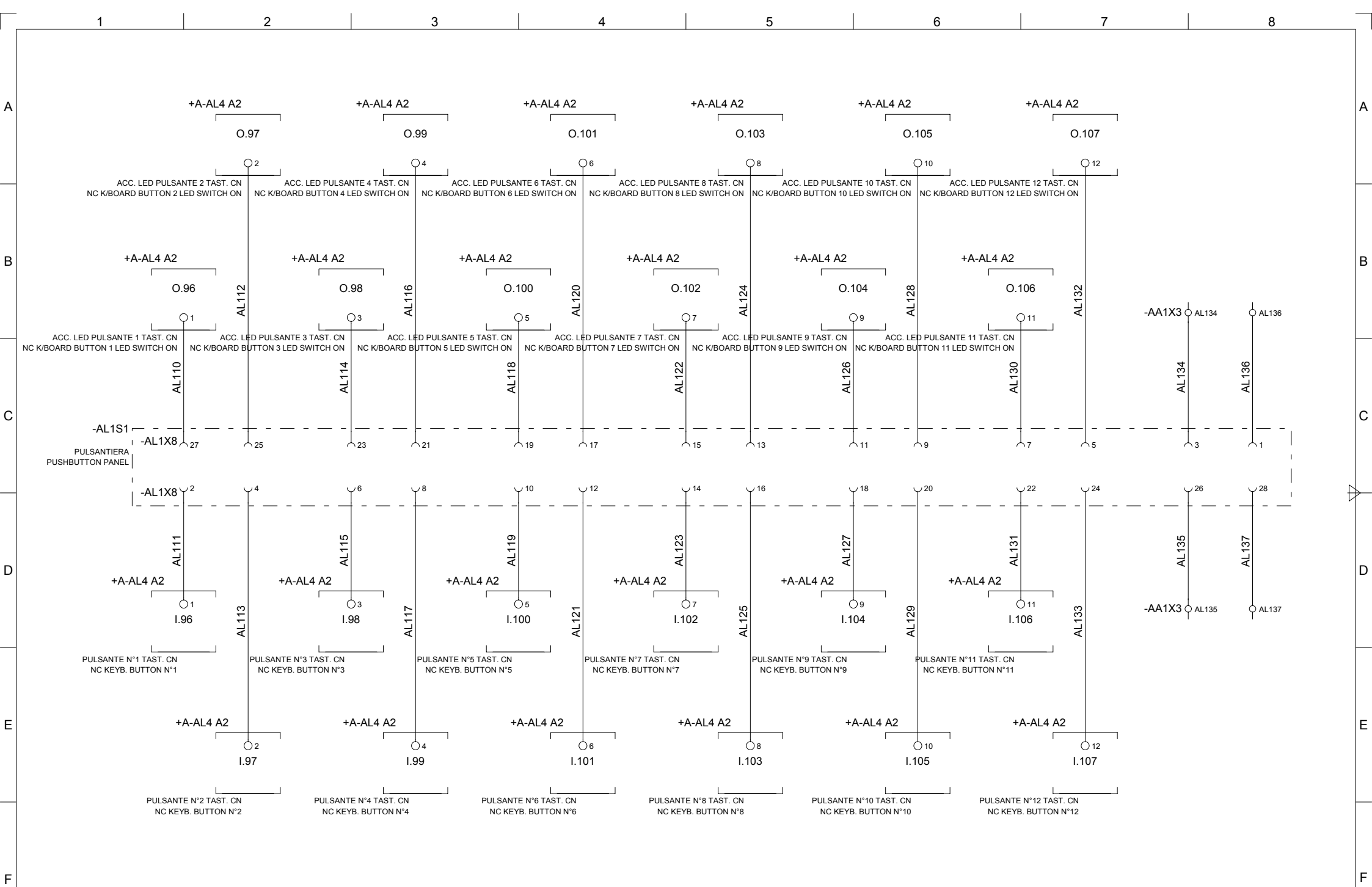
REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
005	CREAZIONE	03/11/2003	OCeccolini	P.M. 03-0161M
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 CONTROLLO NUMERICO
 NUMERICAL CONTROL

ROVER 20 (03)
 REL SCHEMA DIAGRAM 003.007
 MATRICOLA SERIAL NUMBER 44929

Gr.Fun. AL1
 Foglio 123
 124 F.S.

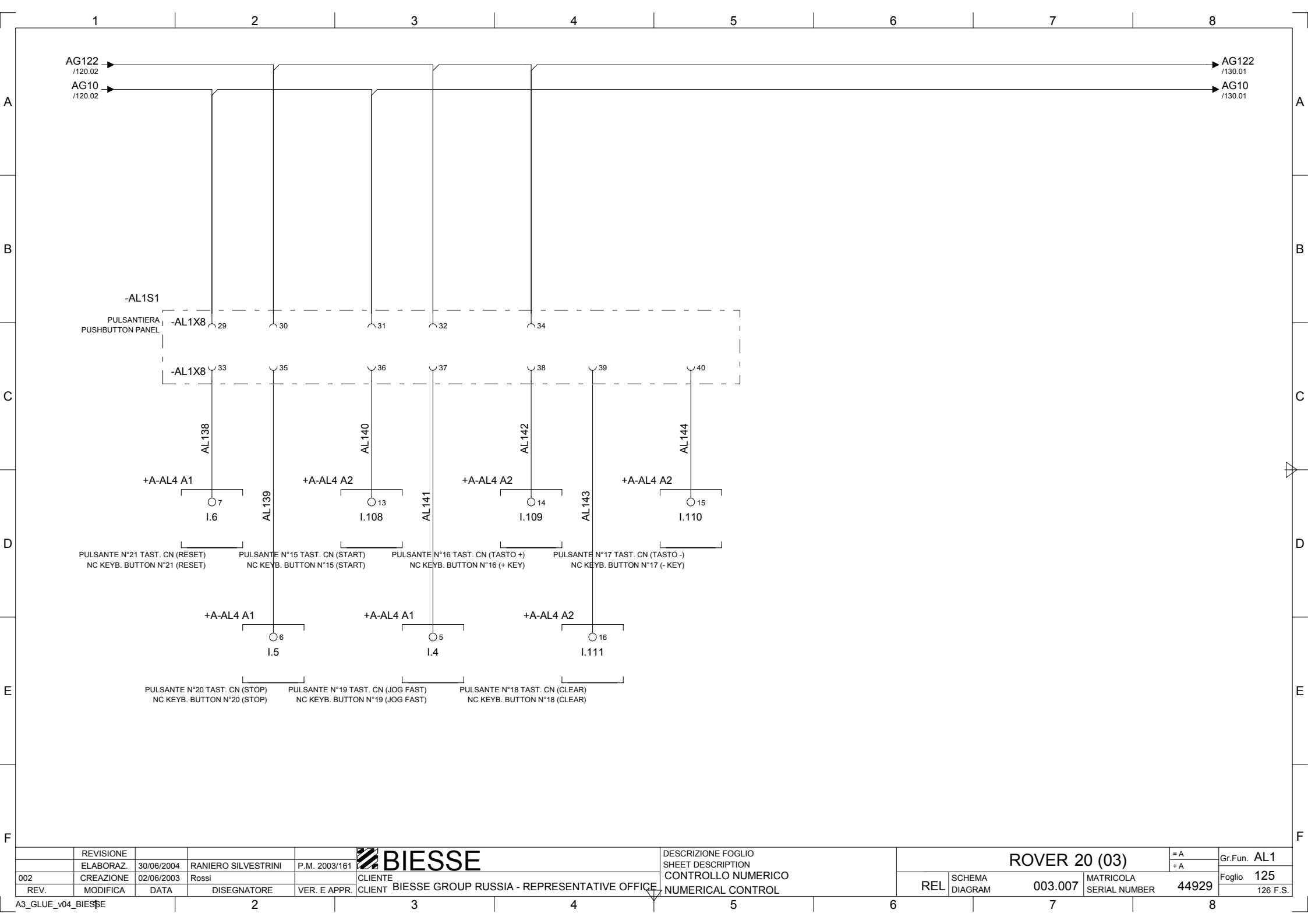


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
002	CREAZIONE	02/06/2003	Rossi	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 CONTROLLO NUMERICO
 NUMERICAL CONTROL

ROVER 20 (03)				= A	Gr.Fun. AL1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 124
				125 F.S.	



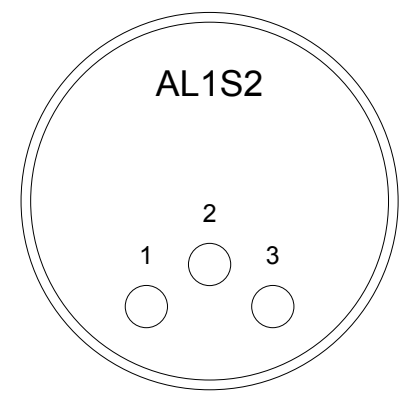
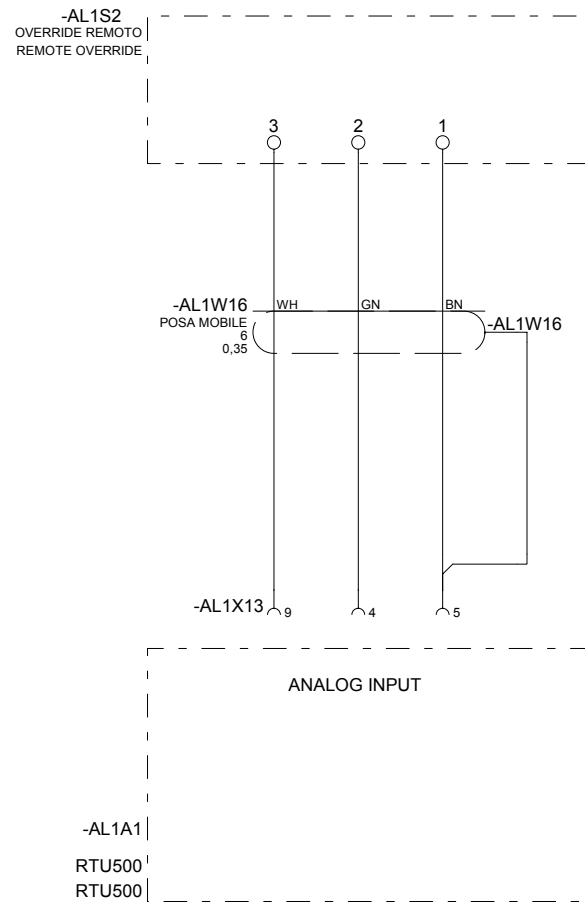
REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
002	CREAZIONE	02/06/2003	Rossi	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 CONTROLLO NUMERICO
 NUMERICAL CONTROL

ROVER 20 (03)			= A	Gr.Fun. AL1
			+ A	Foglio 125
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929

126 F.S.



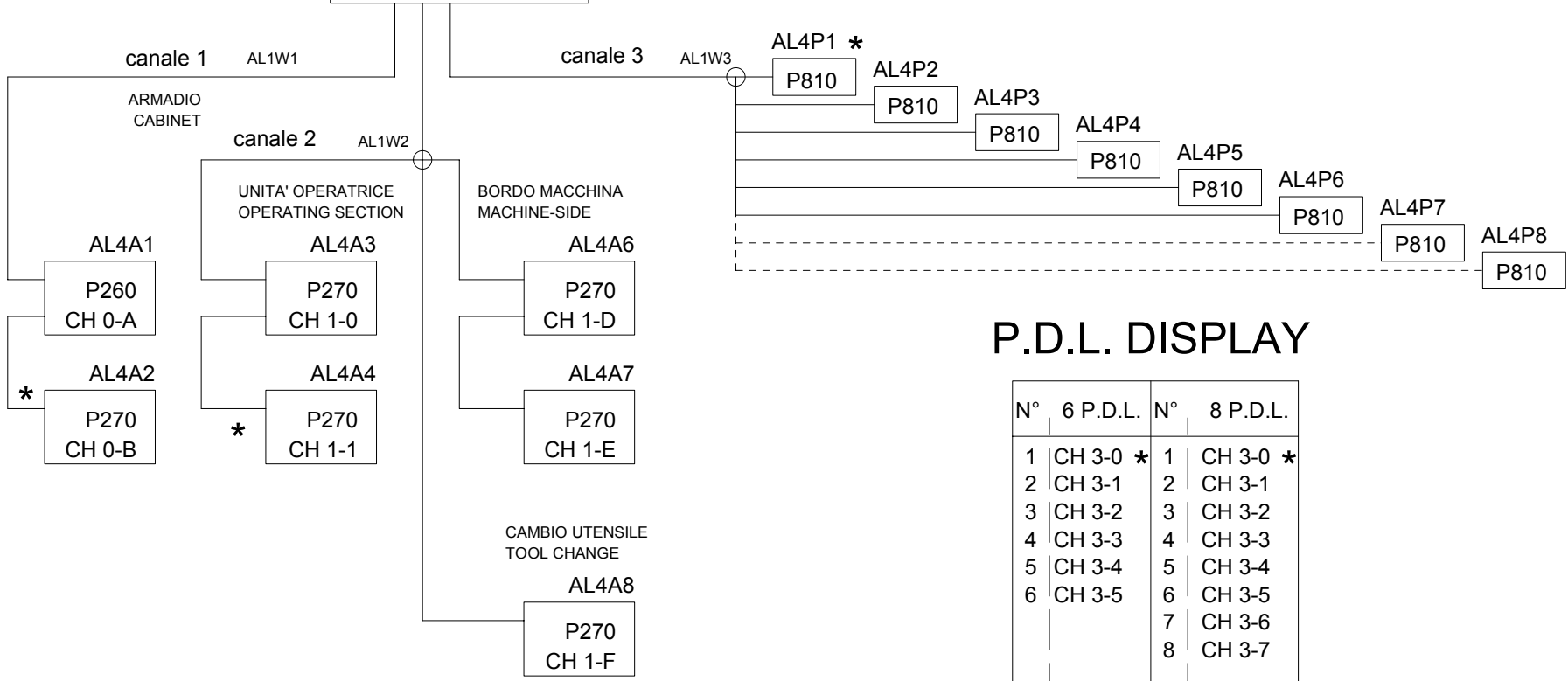
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION CONTROLLO NUMERICO NUMERICAL CONTROL	ROVER 20 (03)	= A + A	Gr.Fun. AL1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					
001	CREAZIONE	02/06/2003	Rossi	CLIENTE					
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					

CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 126	129 F.S.
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* TERMINATO
FINISHED

RTU-HSD



P.D.L. DISPLAY

N°	6 P.D.L.	N°	8 P.D.L.
1	CH 3-0 *	1	CH 3-0 *
2	CH 3-1	2	CH 3-1
3	CH 3-2	3	CH 3-2
4	CH 3-3	4	CH 3-3
5	CH 3-4	5	CH 3-4
6	CH 3-5	6	CH 3-5
		7	CH 3-6
		8	CH 3-7

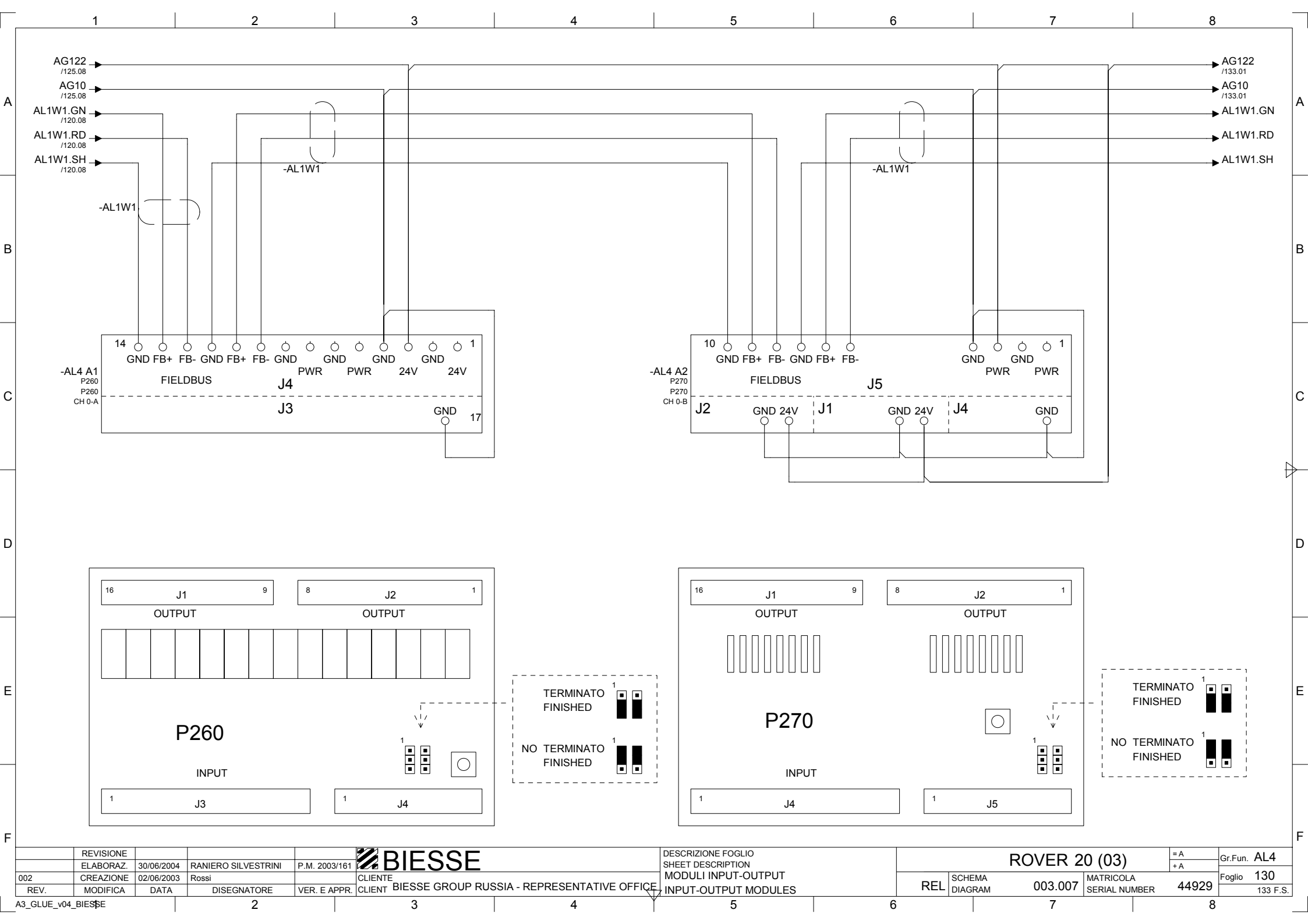
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.
001	CREAZIONE	02/06/2003	Rossi	
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 MODULI INPUT-OUTPUT
 INPUT-OUTPUT MODULES

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929
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Gr.Fun.	AL4
Foglio	129
	130 F.S.

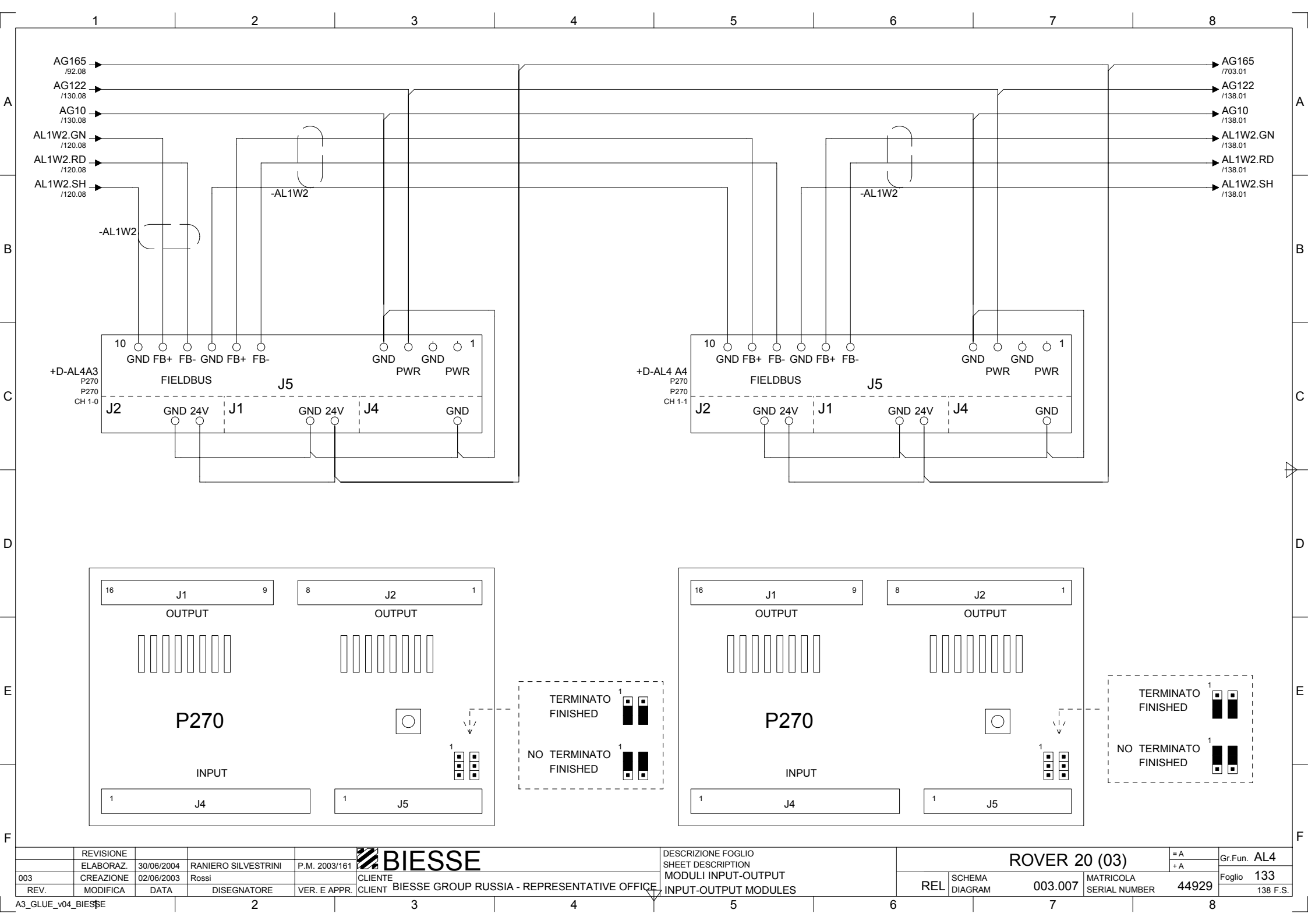


REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
002	02/06/2003	Rossi	
REV.	MODIFICA	DATA	VER. E APPR.
		DISEGNAIORE	

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 MODULI INPUT-OUTPUT
 INPUT-OUTPUT MODULES

ROVER 20 (03)			= A	Gr.Fun. AL4
REL	SCHEMA DIAGRAM	003.007	+ A	Foglio 130
			MATRICOLA SERIAL NUMBER	44929
				133 F.S.

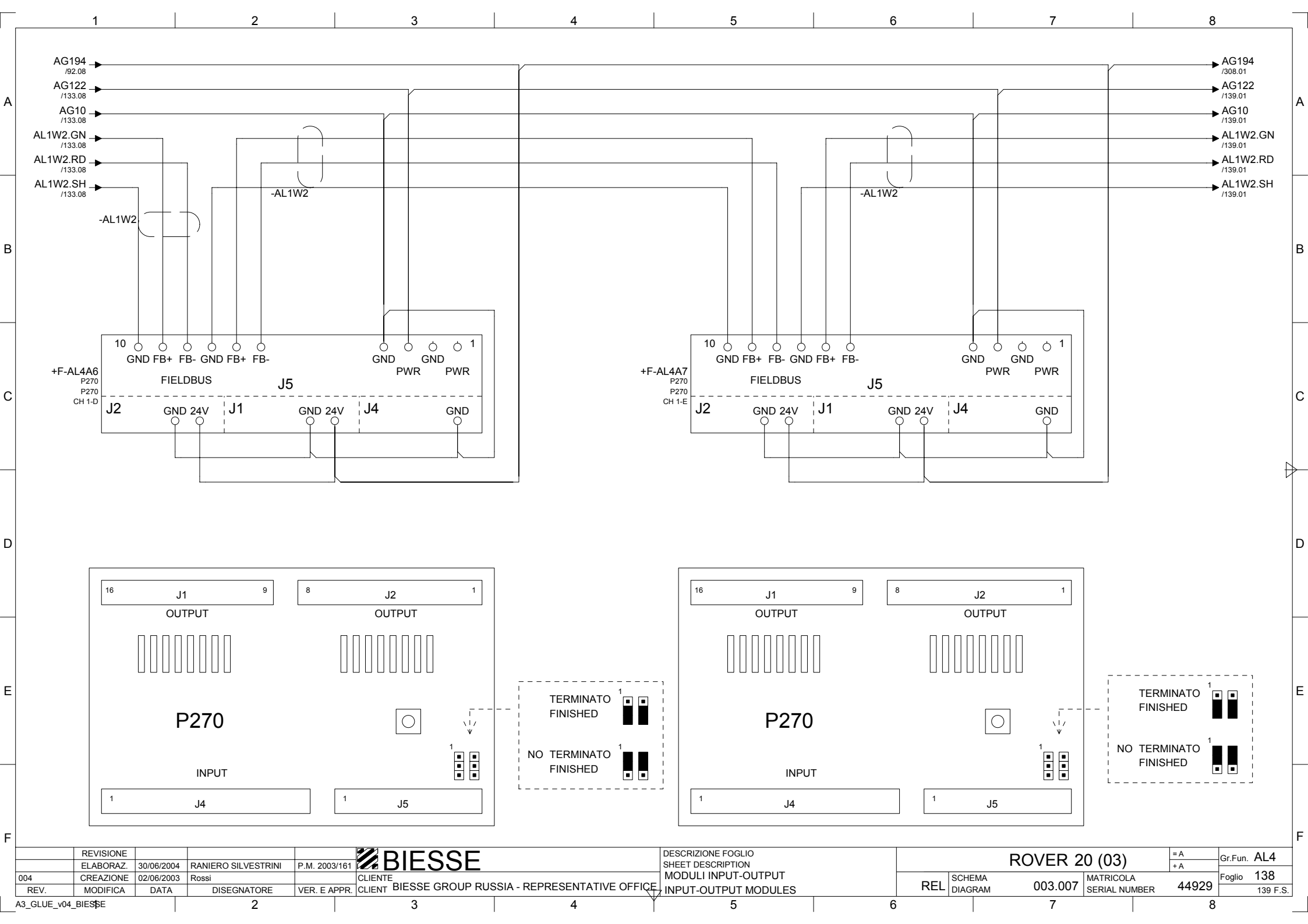


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
003	CREAZIONE	02/06/2003	Rossi	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 MODULI INPUT-OUTPUT
 INPUT-OUTPUT MODULES

ROVER 20 (03)			= A	Gr.Fun. AL4	
			+ A		
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 133 138 F.S.

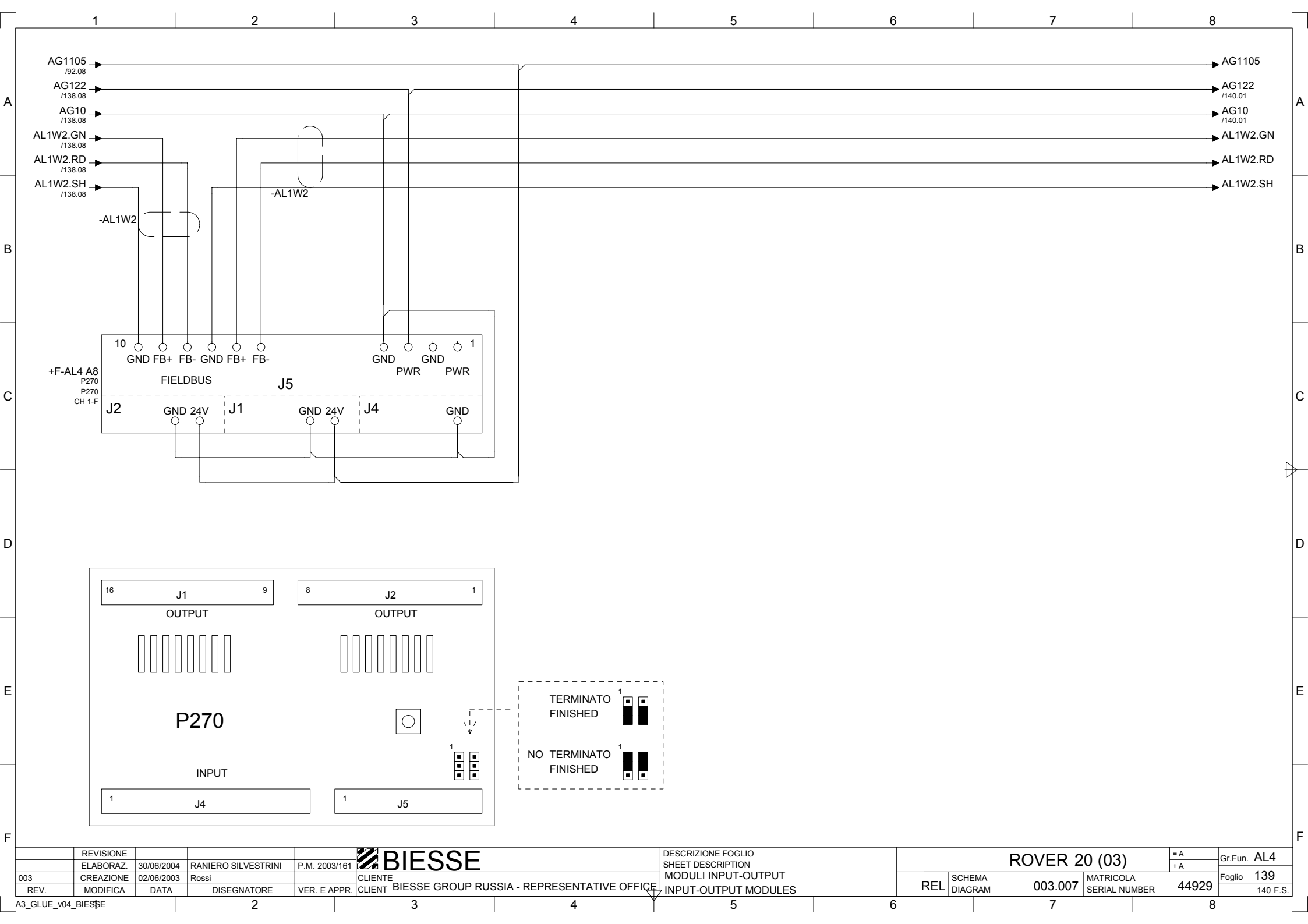


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
004	CREAZIONE	02/06/2003	Rossi	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
MODULI INPUT-OUTPUT
INPUT-OUTPUT MODULES

ROVER 20 (03)				= A	Gr.Fun. AL4
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 138 139 F.S.

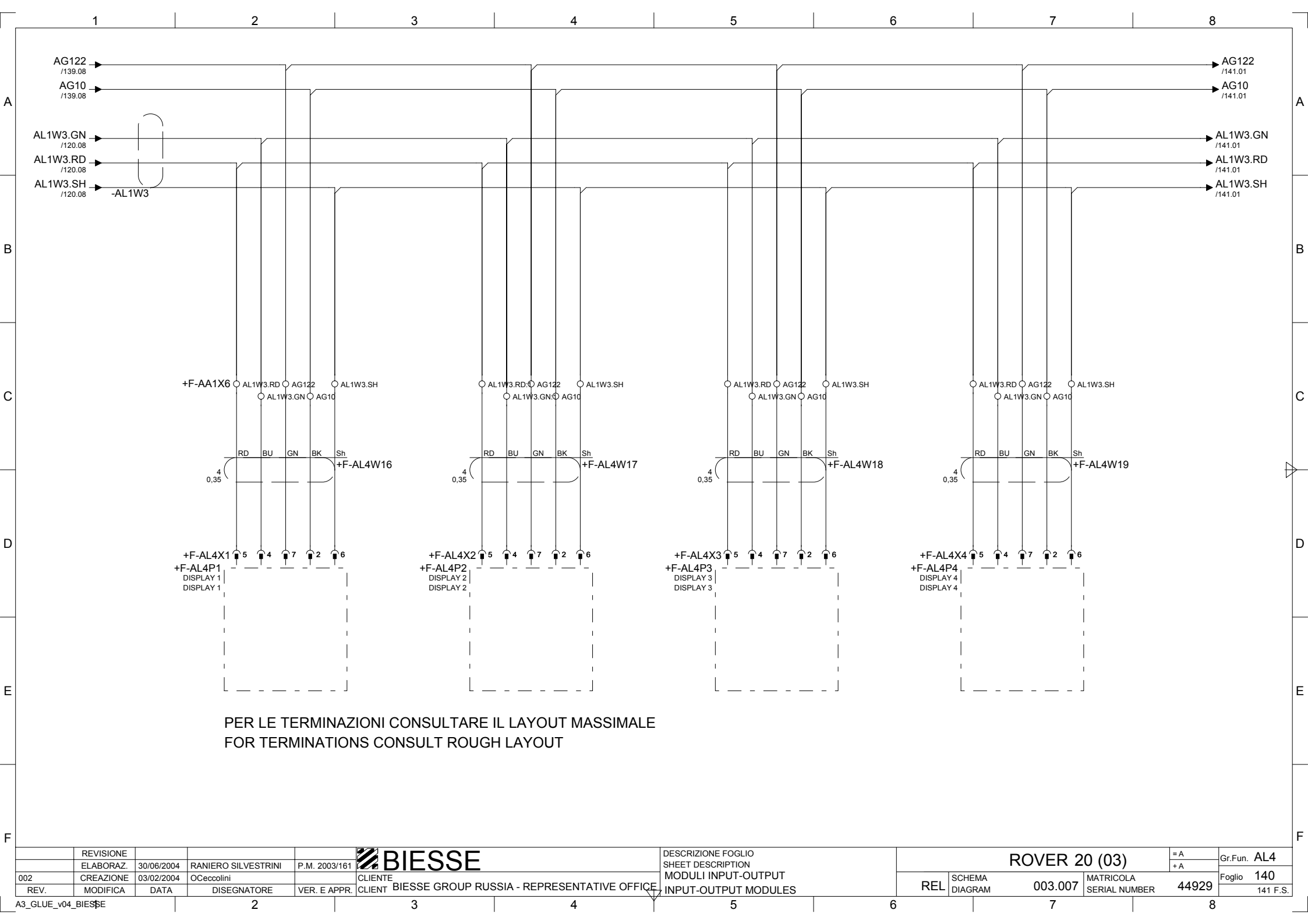


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	02/06/2003	Rossi	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
MODULI INPUT-OUTPUT
INPUT-OUTPUT MODULES

ROVER 20 (03)			= A	Gr.Fun. AL4	
			+ A		
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 139
					140 F.S.



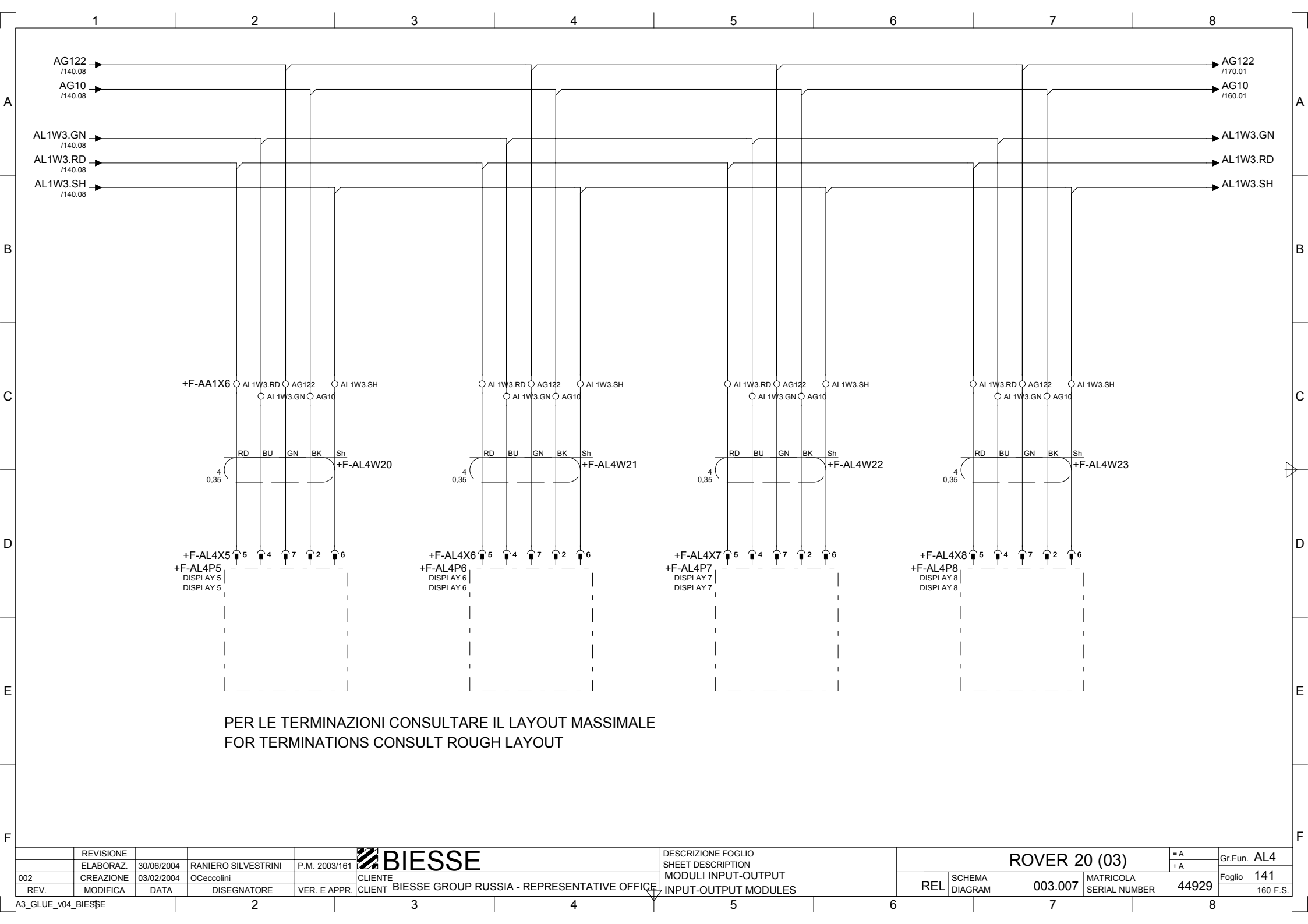
PER LE TERMINAZIONI CONSULTARE IL LAYOUT MASSIMALE
 FOR TERMINATIONS CONSULT ROUGH LAYOUT

	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
002	CREAZIONE	03/02/2004	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 MODULI INPUT-OUTPUT
 INPUT-OUTPUT MODULES

ROVER 20 (03)				= A	Gr.Fun. AL4
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 140 141 F.S.



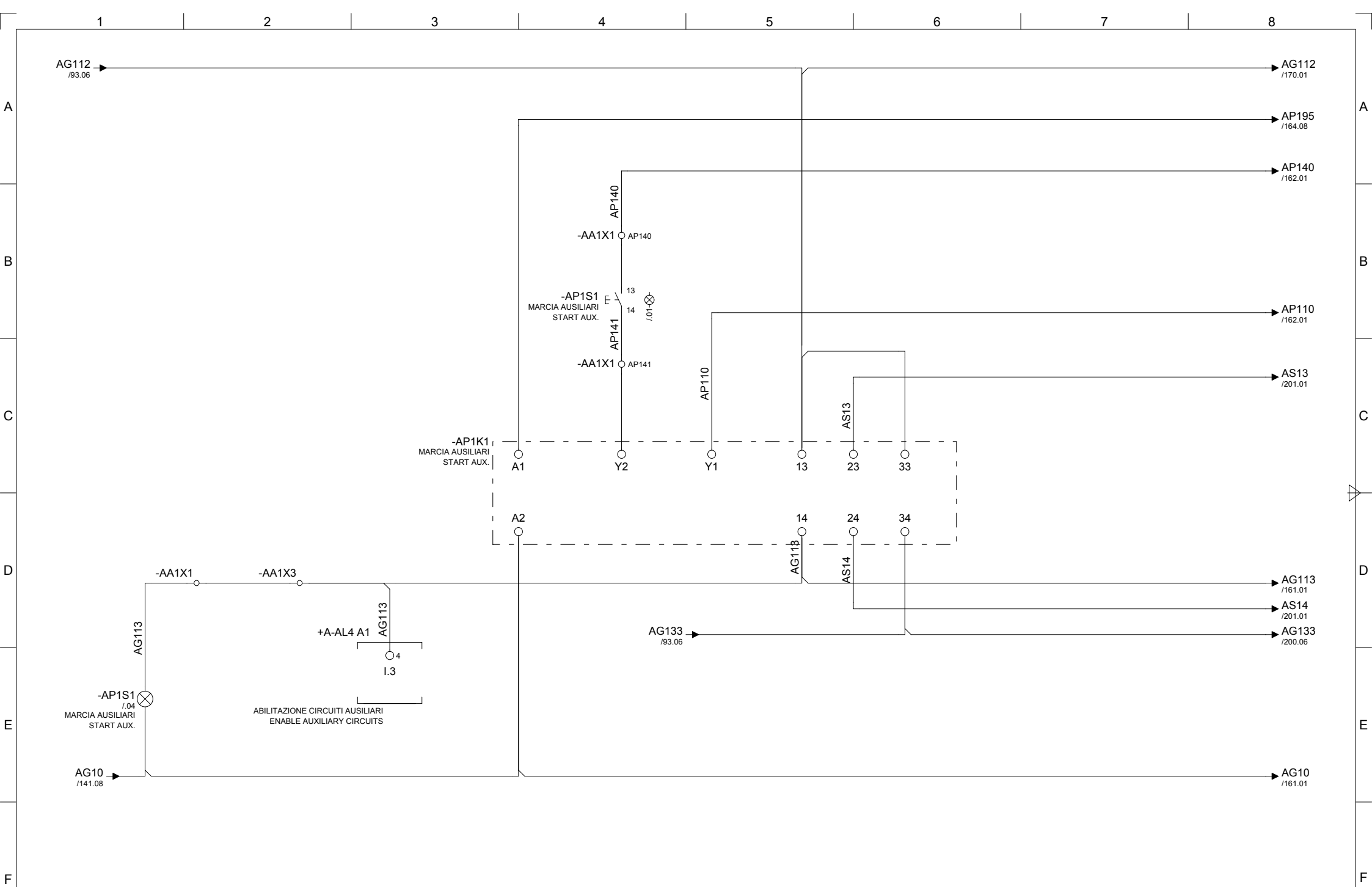
PER LE TERMINAZIONI CONSULTARE IL LAYOUT MASSIMALE
 FOR TERMINATIONS CONSULT ROUGH LAYOUT

	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
002	CREAZIONE	03/02/2004	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 MODULI INPUT-OUTPUT
 INPUT-OUTPUT MODULES

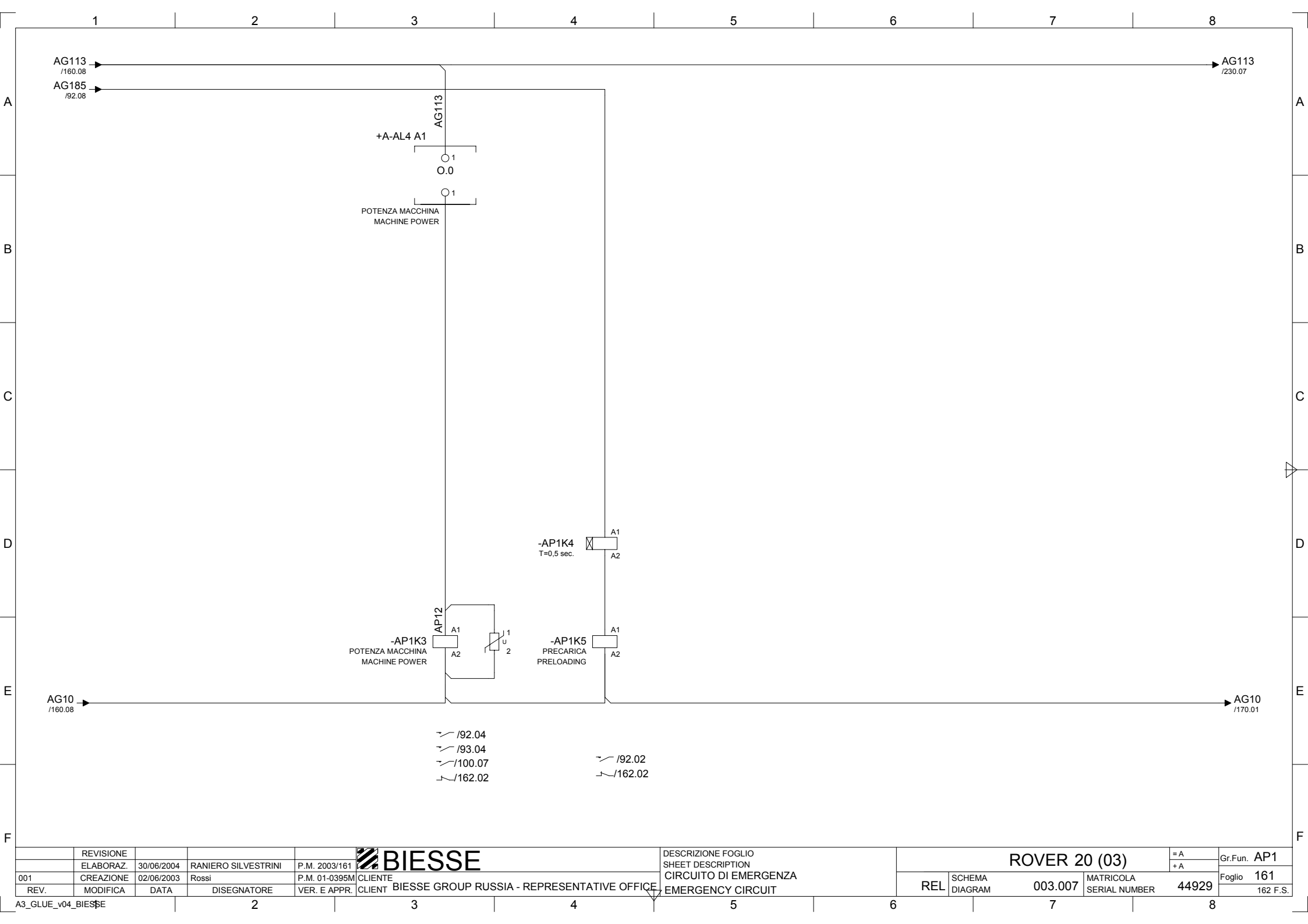
ROVER 20 (03)				= A	Gr.Fun. AL4
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 141 160 F.S.



	REVISIONE					DESCRIZIONE FOLGIO SHEET DESCRIPTION CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT	ROVER 20 (03)		= A	Gr.Fun. AP1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A	
001	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M					Foglio 160	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	

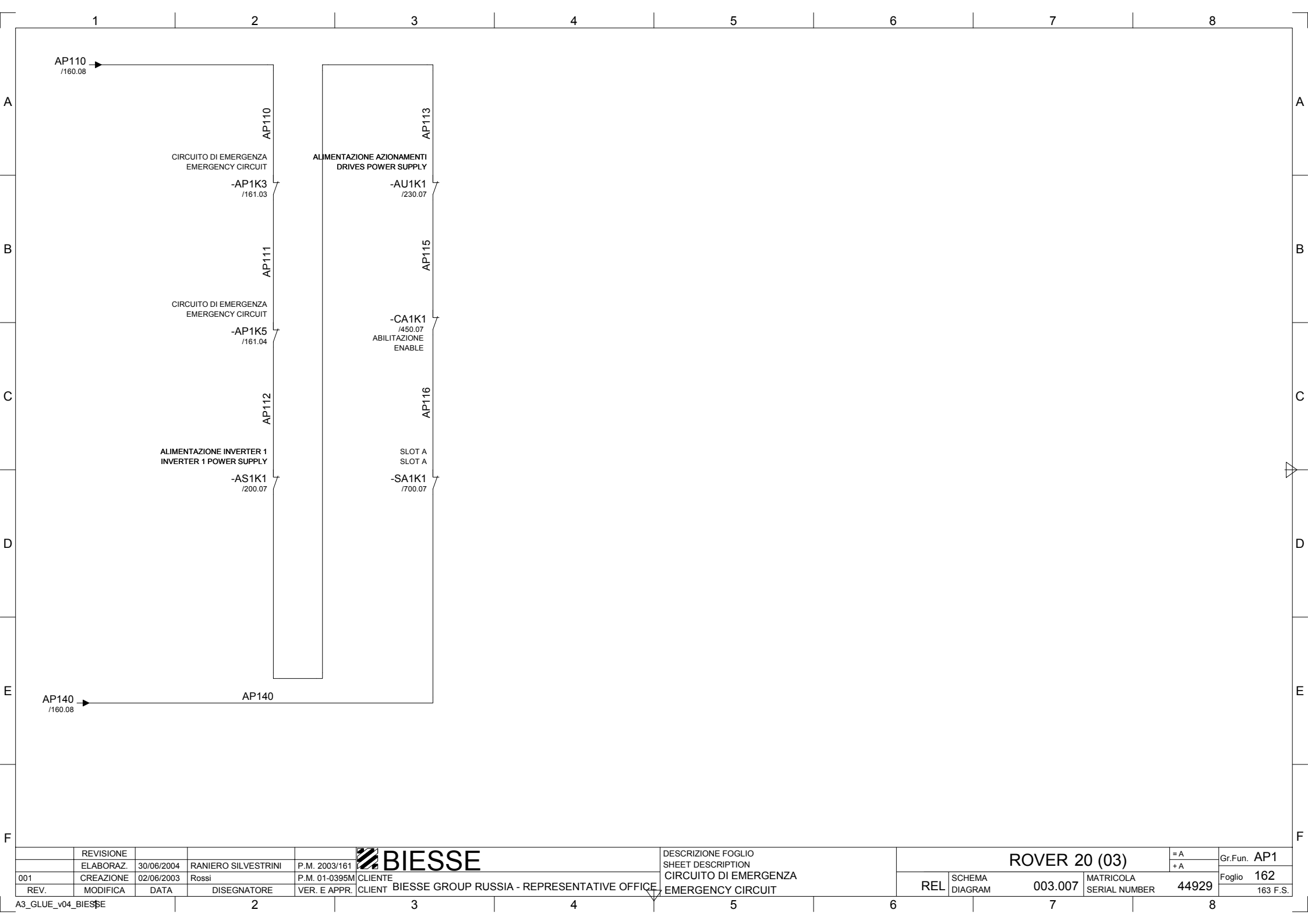
CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929
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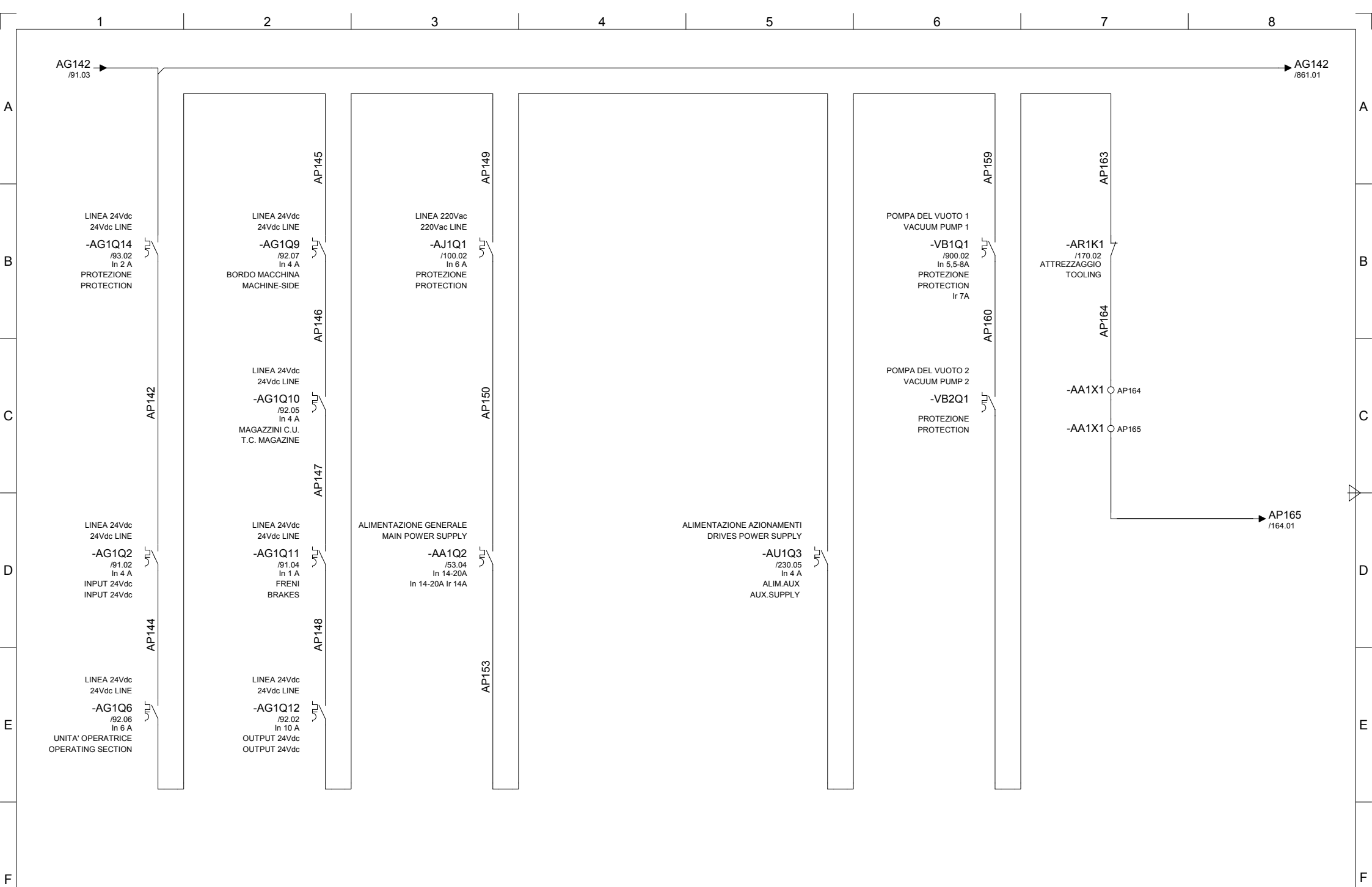
- ~ /92.04
- ~ /93.04
- ~ /100.07
- ~ /162.02
- ~ /92.02
- ~ /162.02

					BIESSE	DESCRIZIONE FOLGIO SHEET DESCRIPTION CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT			ROVER 20 (03)		= A	Gr.Fun. AP1
									+ A		Foglio 161	
001	REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161							
	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						
	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT							
REL SCHEMA DIAGRAM 003.007 MATRICOLA SERIAL NUMBER 44929												162 F.S.

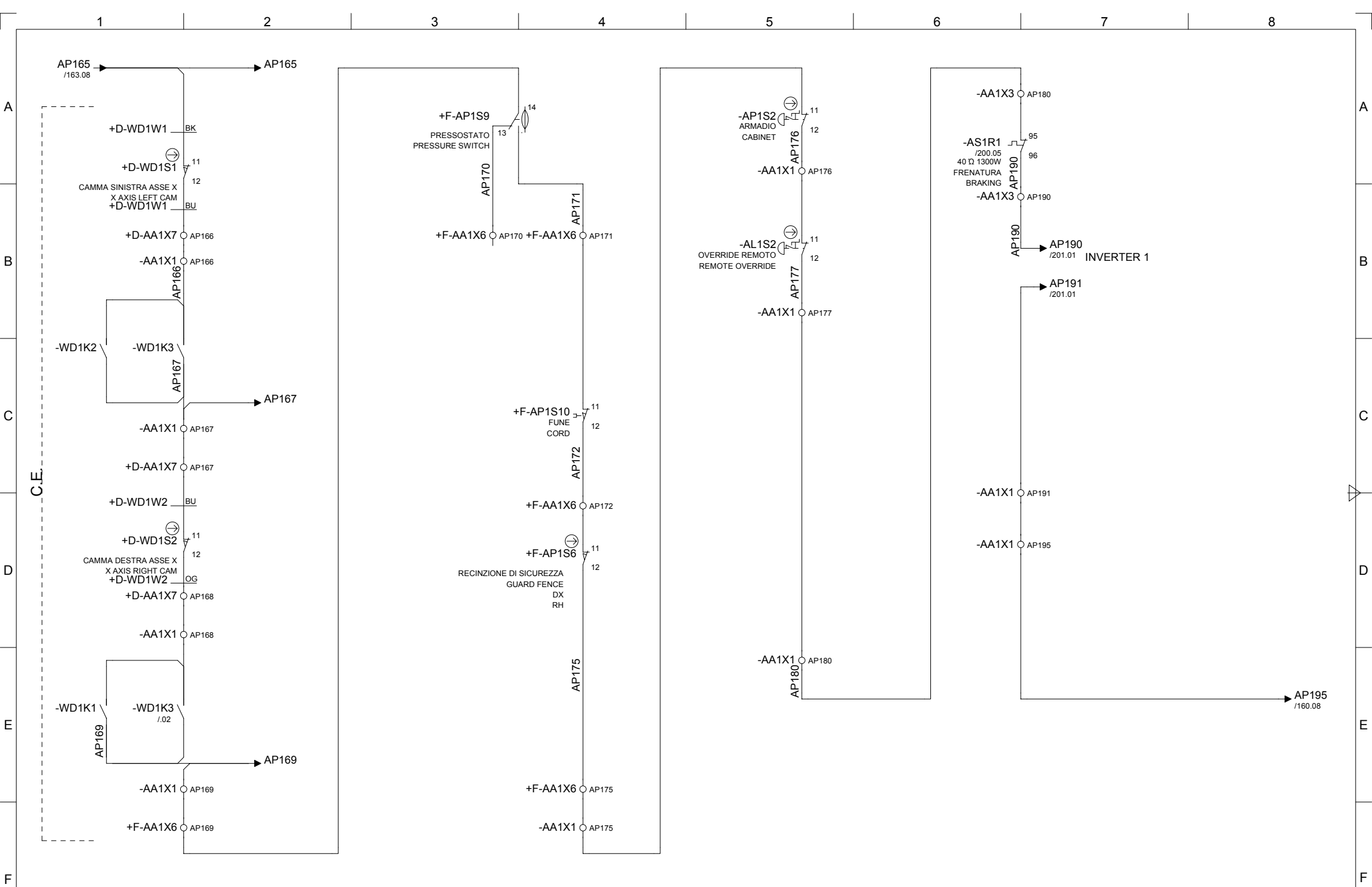


	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		
001	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		

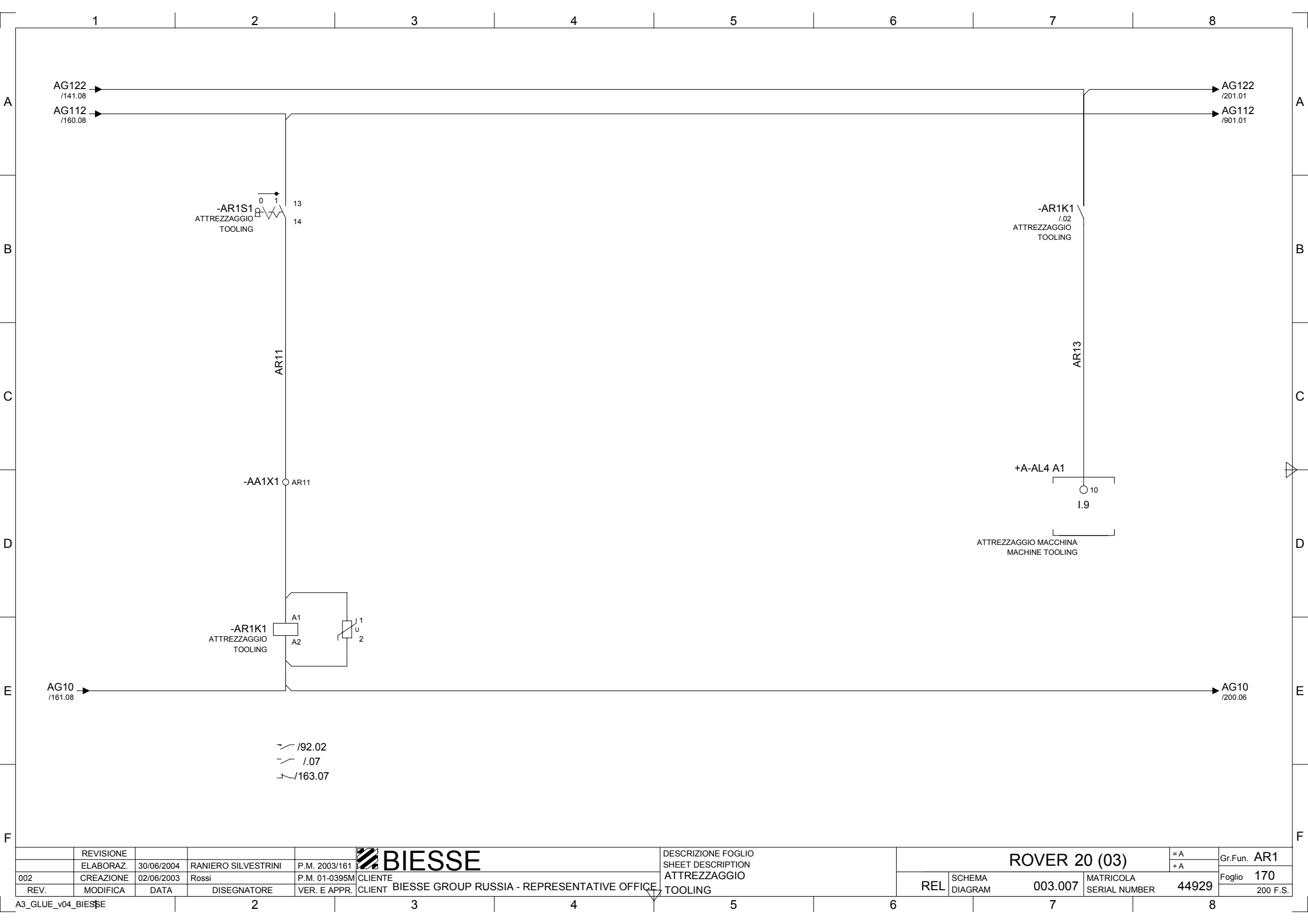
				ROVER 20 (03)		= A	Gr.Fun. AP1
						+ A	Foglio 162
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929			
						163 F.S.	



						DESCRIZIONE FOGLIO SHEET DESCRIPTION CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		ROVER 20 (03)		= A		Gr.Fun. AP1		
002		CREAZIONE	02/06/2003							Rossi	P.M. 01-0395M	CLIENTE	REL	SCHEMA DIAGRAM
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE								164 F.S.

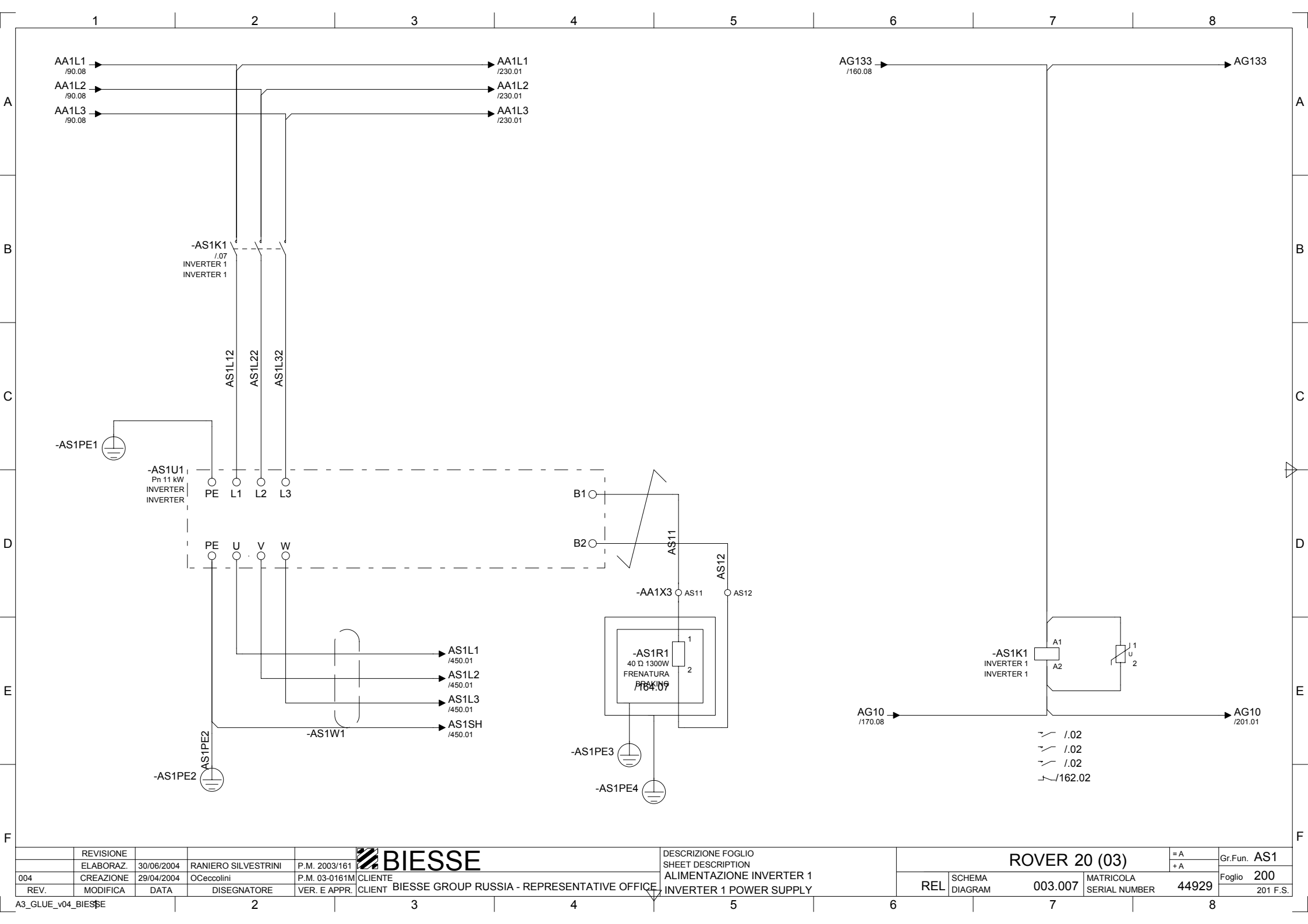


BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE				DESCRIZIONE FOLGIO SHEET DESCRIPTION CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT		ROVER 20 (03)		= A	Gr.Fun. AP1
012	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161				+ A	Foglio 164
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER 44929
A3_GLUE_v04_BIESSE									170 F.S.

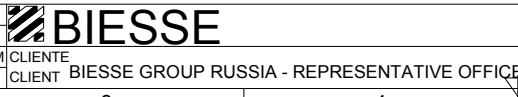


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
002	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

DESCRIZIONE FOLGIO SHEET DESCRIPTION				ROVER 20 (03)		= A	Gr.Fun. AR1
ATTREZZAGGIO TOOLING						+ A	Foglio 170
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929			200 F.S.



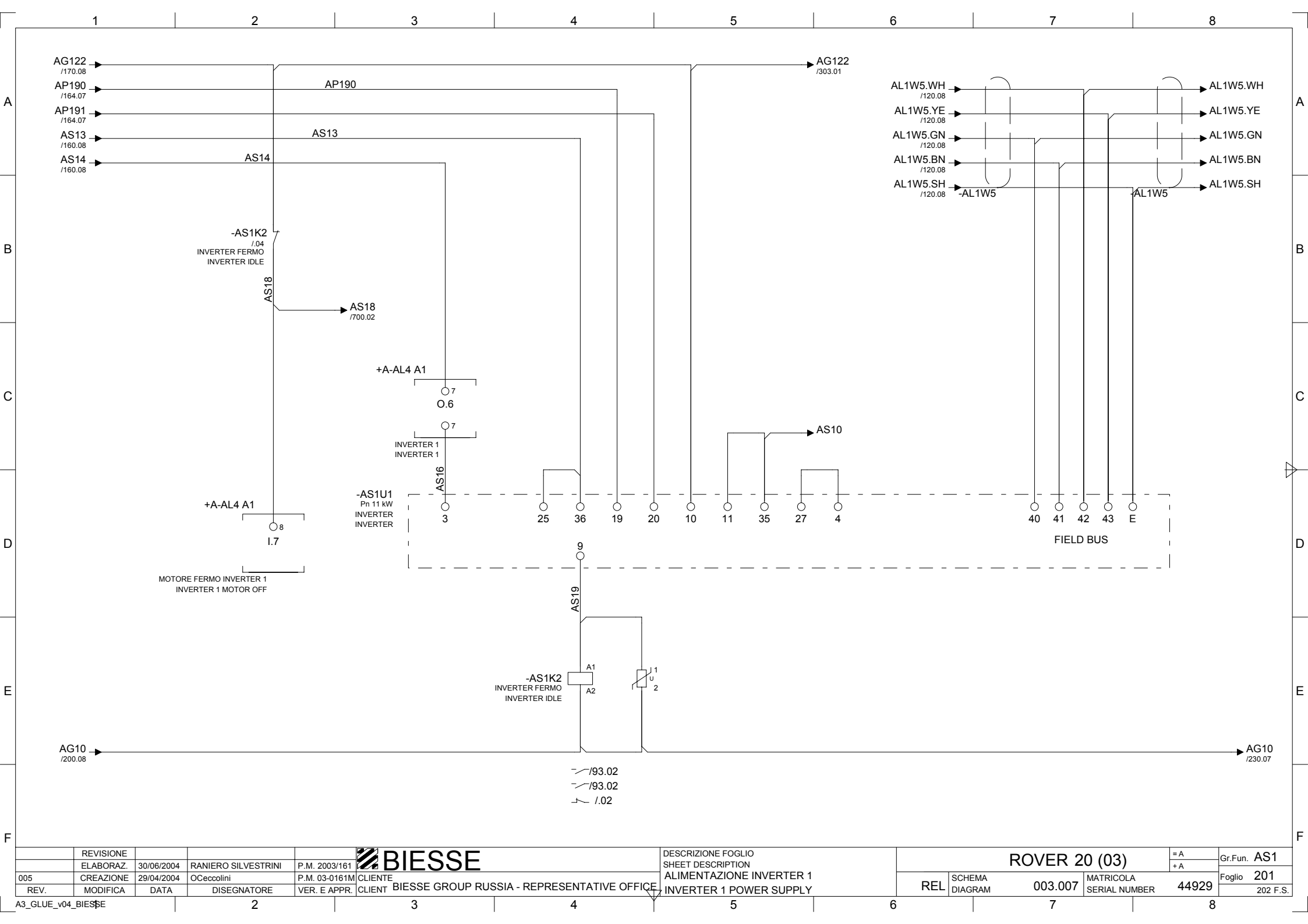
	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
004	CREAZIONE	29/04/2004	OCeccolini	P.M. 03-0161M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE



DESCRIZIONE FOLGIO
SHEET DESCRIPTION
ALIMENTAZIONE INVERTER 1
INVERTER 1 POWER SUPPLY

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	

= A	Gr.Fun. AS1
+ A	Foglio 200
	201 F.S.



	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
005	CREAZIONE	29/04/2004	OCeccolini	P.M. 03-0161M	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 ALIMENTAZIONE INVERTER 1
 INVERTER 1 POWER SUPPLY

ROVER 20 (03)			= A	Gr.Fun. AS1	
			+ A		
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 201
				202 F.S.	

INVERTER YASKAWA VS616-G5

A1-00	4			E1-07	0
A1-01	4			E1-08	0
B1-01	2			E1-09	0
B1-02	2			E1-10	0
B1-06	0			E2-03	0
B2-02	60			H1-01	17
C1-01	4			H1-02	66
C1-02	4			H2-02	07
C2-01	2.5			H5-01	1 (Address 1° Inverter)
C2-02	0.00				2 (Address 2° Inverter)
C2-03	0.00				3 (Address 3° Inverter)
C2-04	2.5			H5-02	3 (9600)
C6-01	10			H5-03	1 (EVEN PARITY)
C6-02	10			H5-04	0 (RAMPA FINO A STOP)
E1-02	1			H5-05	0 DISABILITATO
E1-03	F			L2-05	420
E1-04	800			L3-01	0
E1-05	380			L3-04	0
E1-06	87	GRUPPO DI FORATURA BORING UNIT		L6-04	2
	200	ELETTROMANDRINO 2P ELECTROSPINDLE 2P		L6-05	295
	295	ELETTROMANDRINO 4P 13,5 KW ELECTROSPINDLE 4P		L6-06	0.1
	400	ELETTROMANDRINO 4P 7,5 KW ELECTROSPINDLE 4P		O1-02	2

FILES

INVERTER 1 11 kW	C1R11_01.prm
INVERTER 2 11 kW	C2R11_01.prm
INVERTER 1 15 kW	C1R15_01.prm
INVERTER 2 15 kW	C2R15_01.prm

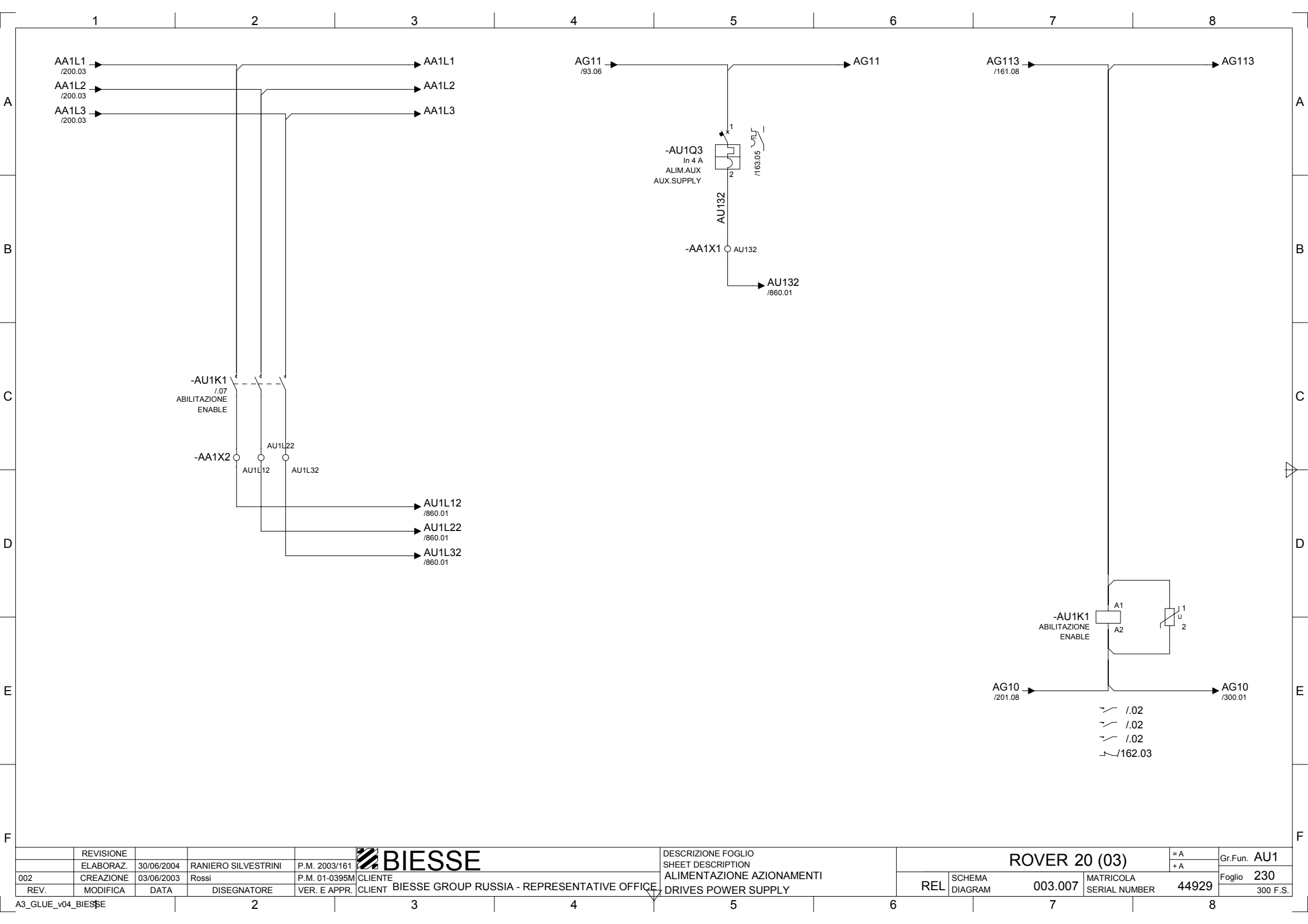
REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
003	CREAZIONE	20/11/2003	OCeccolini	P.M. 03-0161M
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE

DESCRIZIONE FOGLIO
SHEET DESCRIPTION
ALIMENTAZIONE INVERTER 1
INVERTER 1 POWER SUPPLY

CLIENTE
CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

ROVER 20 (03)				= A	Gr.Fun. AS1
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 202
					230 F.S.



AA1L1 /200.03
 AA1L2 /200.03
 AA1L3 /200.03

AG11 /93.06

AG113 /161.08

-AU1Q3
 In 4 A
 ALIM.AUX
 AUX.SUPPLY

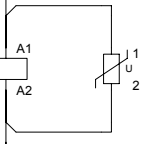
AU132
 -AA1X1 AU132
 AU132 /860.01

-AU1K1
 /07
 ABILITAZIONE
 ENABLE

-AA1X2
 AU1L12
 AU1L22
 AU1L32

AU1L12 /860.01
 AU1L22 /860.01
 AU1L32 /860.01

-AU1K1
 ABILITAZIONE
 ENABLE



AG10 /201.08

/02
 /02
 /02
 /162.03

AG10 /300.01

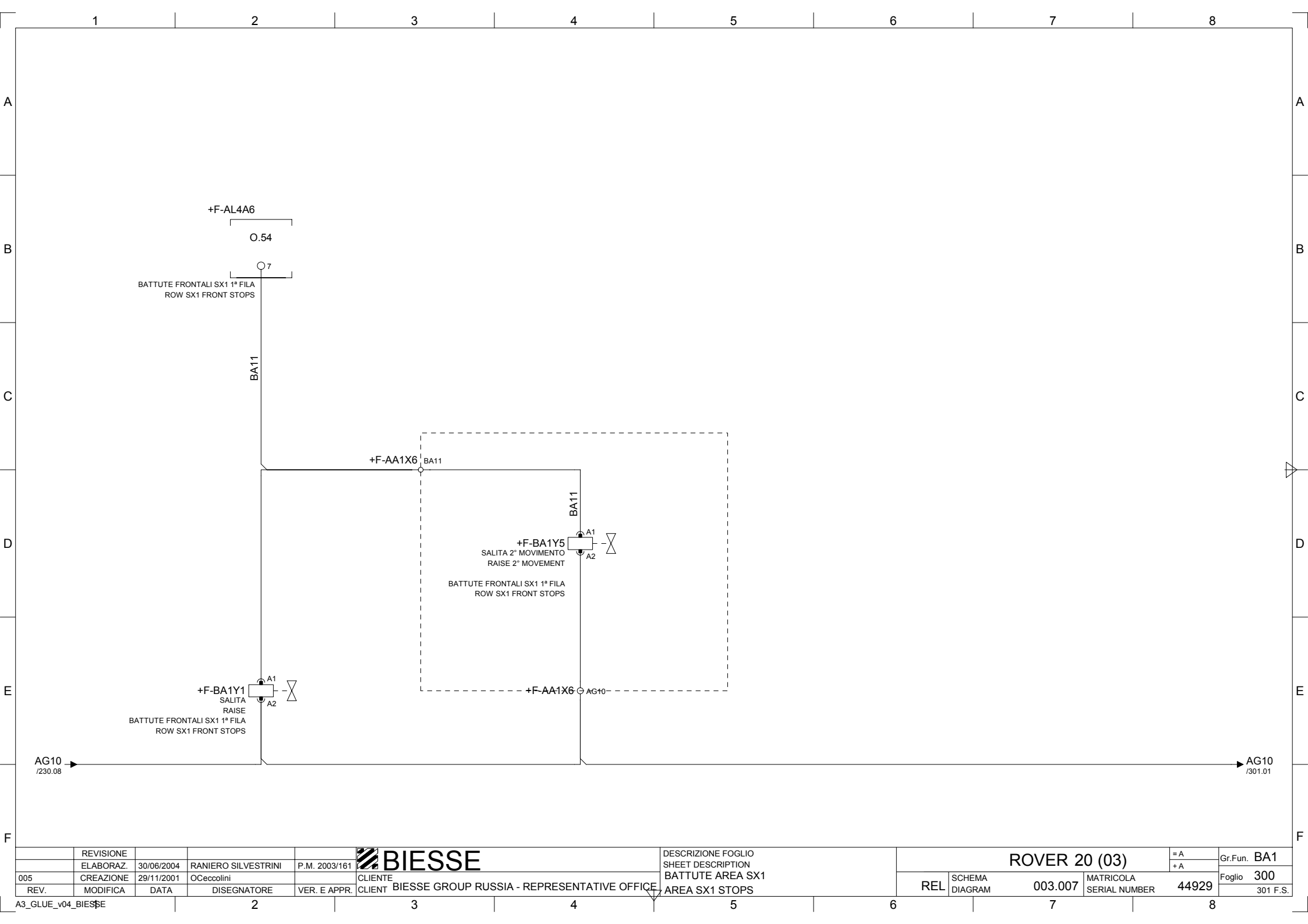
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	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
002	CREAZIONE	03/06/2003	Rossi	P.M. 01-0395M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE



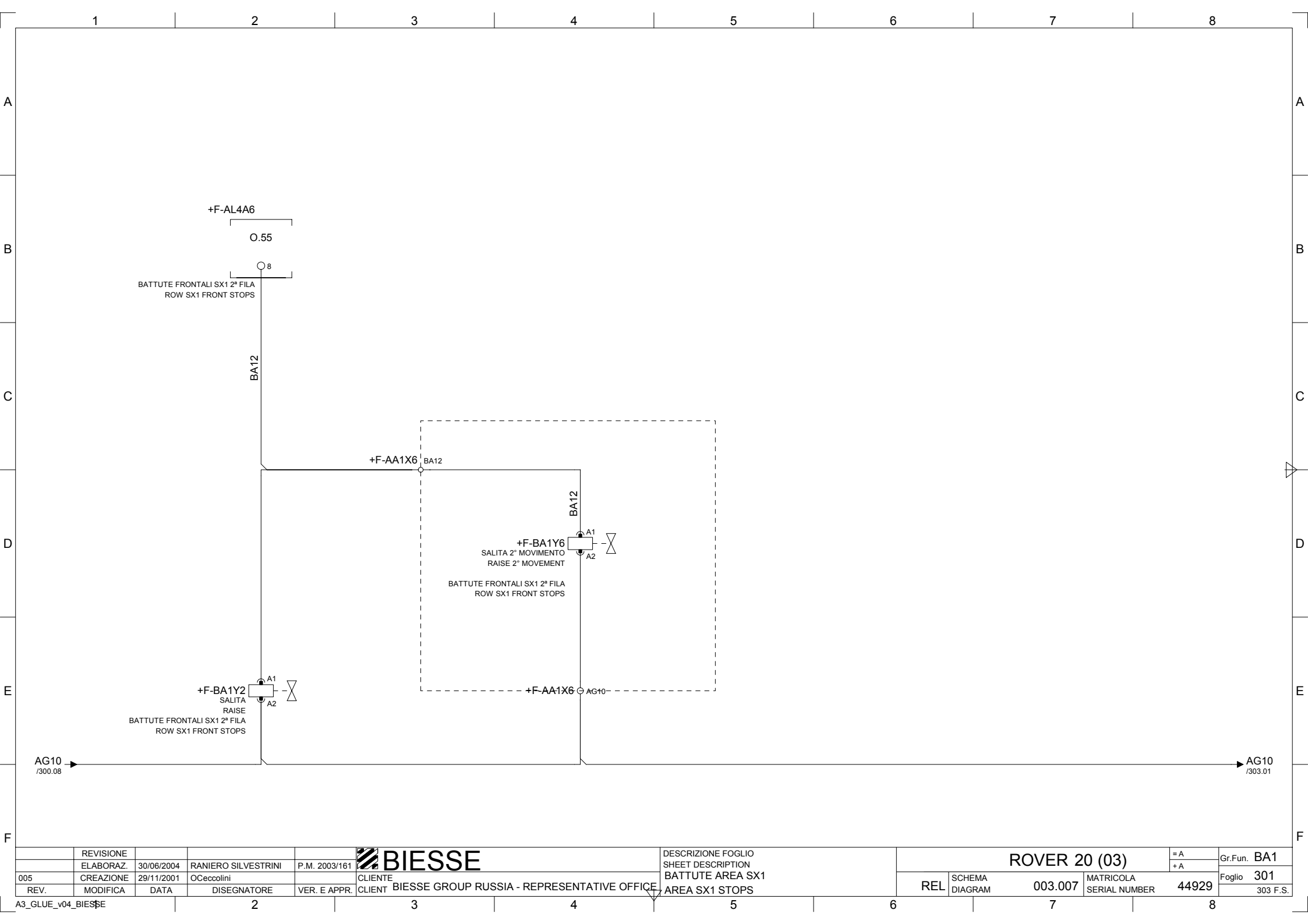
DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 ALIMENTAZIONE AZIONAMENTI
 DRIVES POWER SUPPLY

ROVER 20 (03)

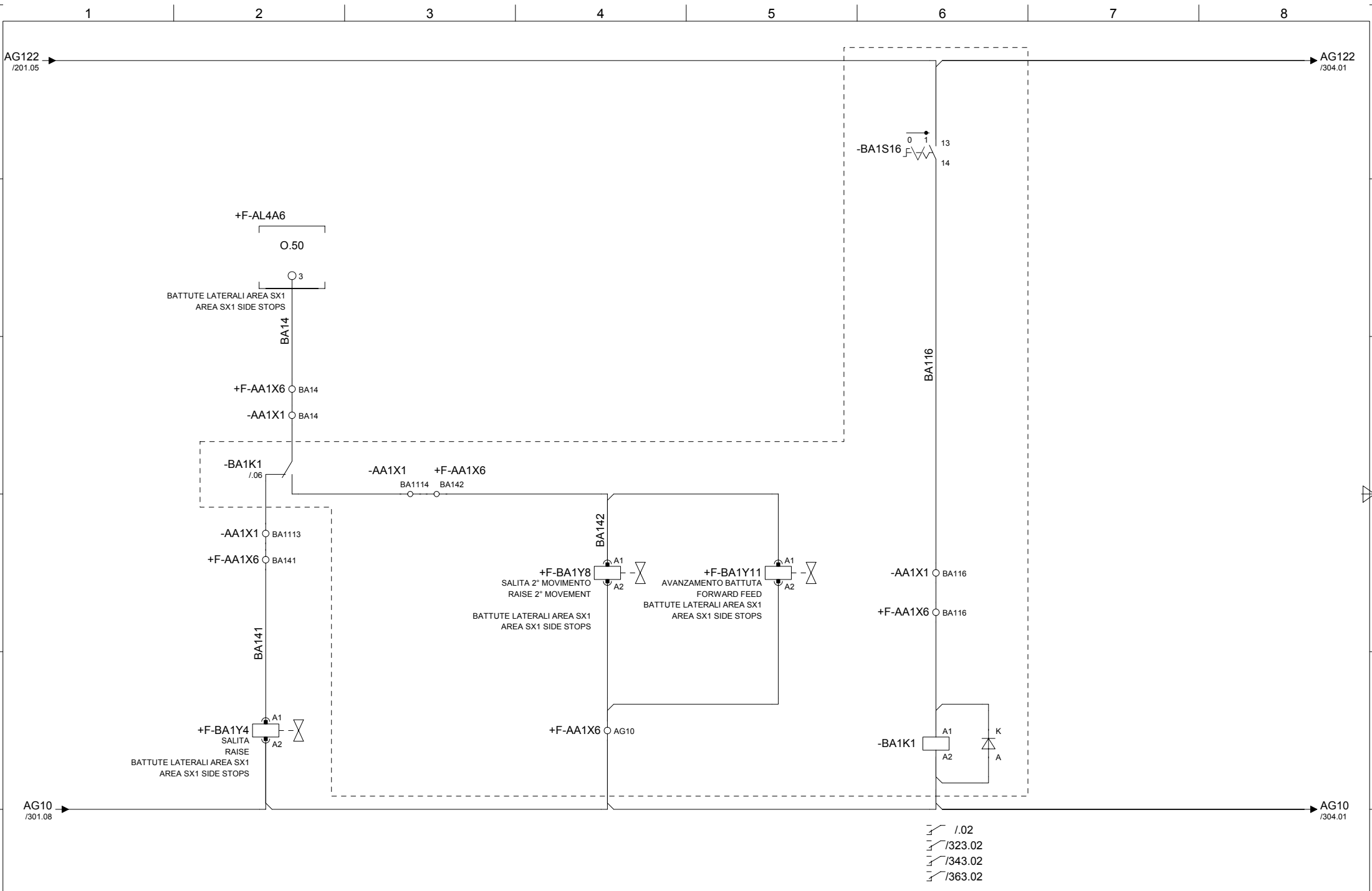
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Gr.Fun. AU1
					Foglio 230
					300 F.S.



	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA SX1 AREA SX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BA1			
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A				
005	CREAZIONE	29/11/2001	OCeccolini				CLIENTE	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 300
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						301 F.S.



	REVISIONE					DESCRIZIONE FOLGIO SHEET DESCRIPTION BATTUTE AREA SX1 AREA SX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BA1		
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A			
005	CREAZIONE	29/11/2001	OCeccolini				CLIENTE	REL	SCHEMA	003.007	MATRICOLA	Foglio 301
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DIAGRAM			SERIAL NUMBER	44929



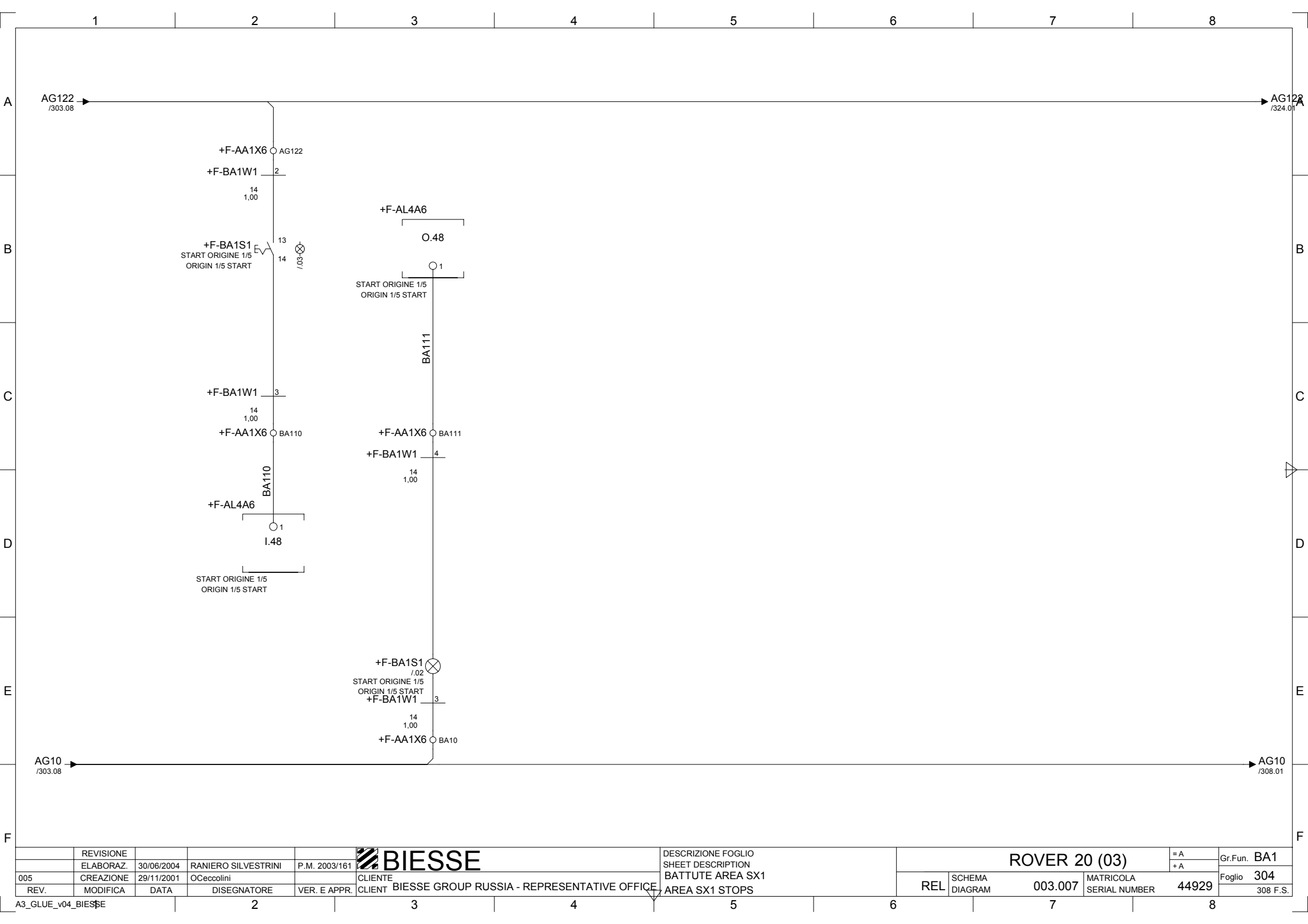
REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
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REV.	MODIFICA	DATA	DISEGNATORE
			VER. E APPR.

BIESSE

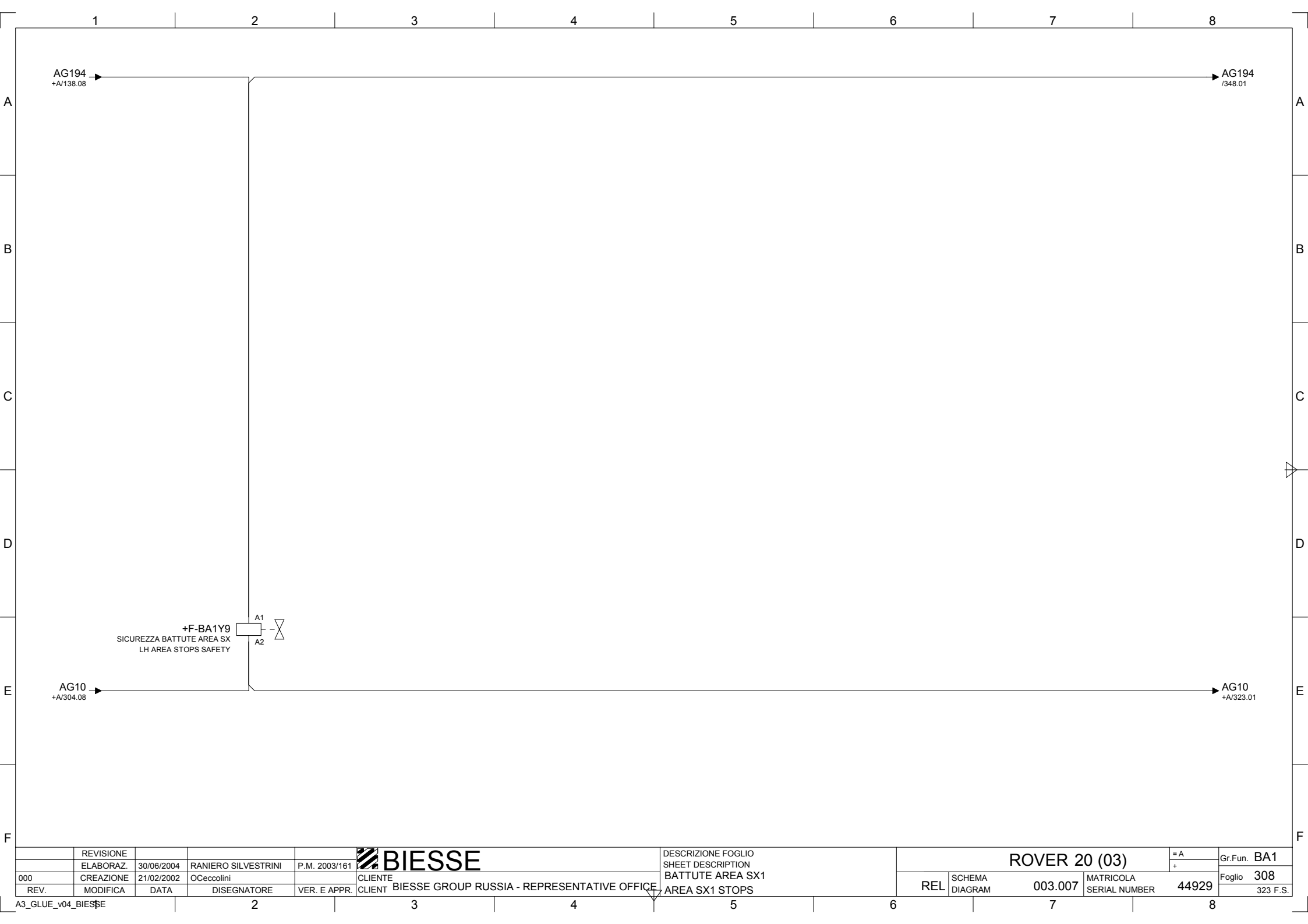
CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
BATTUTE AREA SX1
AREA SX1 STOPS

REL SCHEMA DIAGRAM 003.007			ROVER 20 (03)		= A	Gr.Fun. BA1
			MATRICOLA SERIAL NUMBER 44929	+ A	Foglio 303	
					304 F.S.	



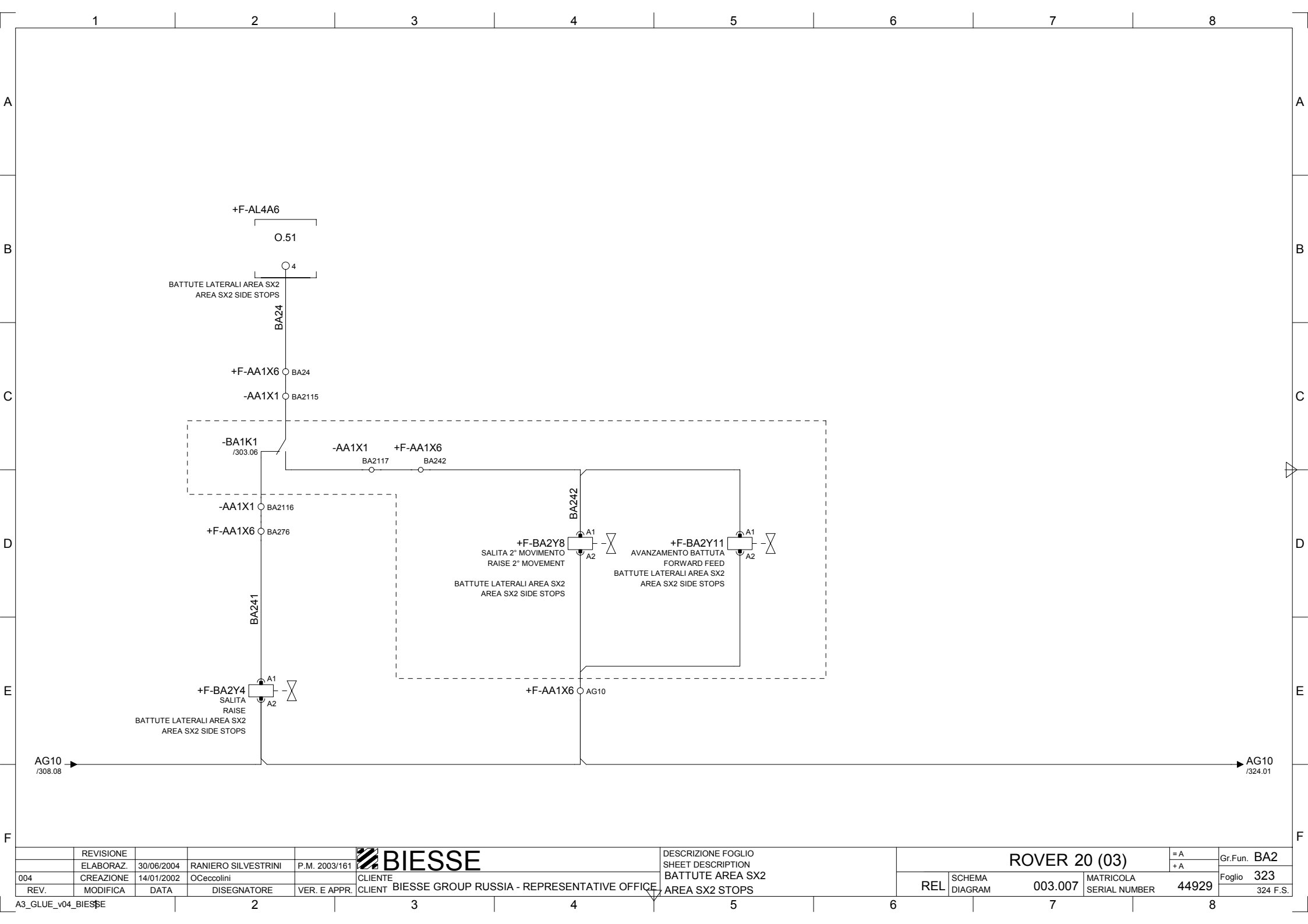
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA SX1 AREA SX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BA1		
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A			
005	CREAZIONE	29/11/2001	OCeccolini				CLIENTE	REL	SCHEMA	003.007	MATRICOLA	Foglio 304
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DIAGRAM		SERIAL NUMBER	44929	308 F.S.



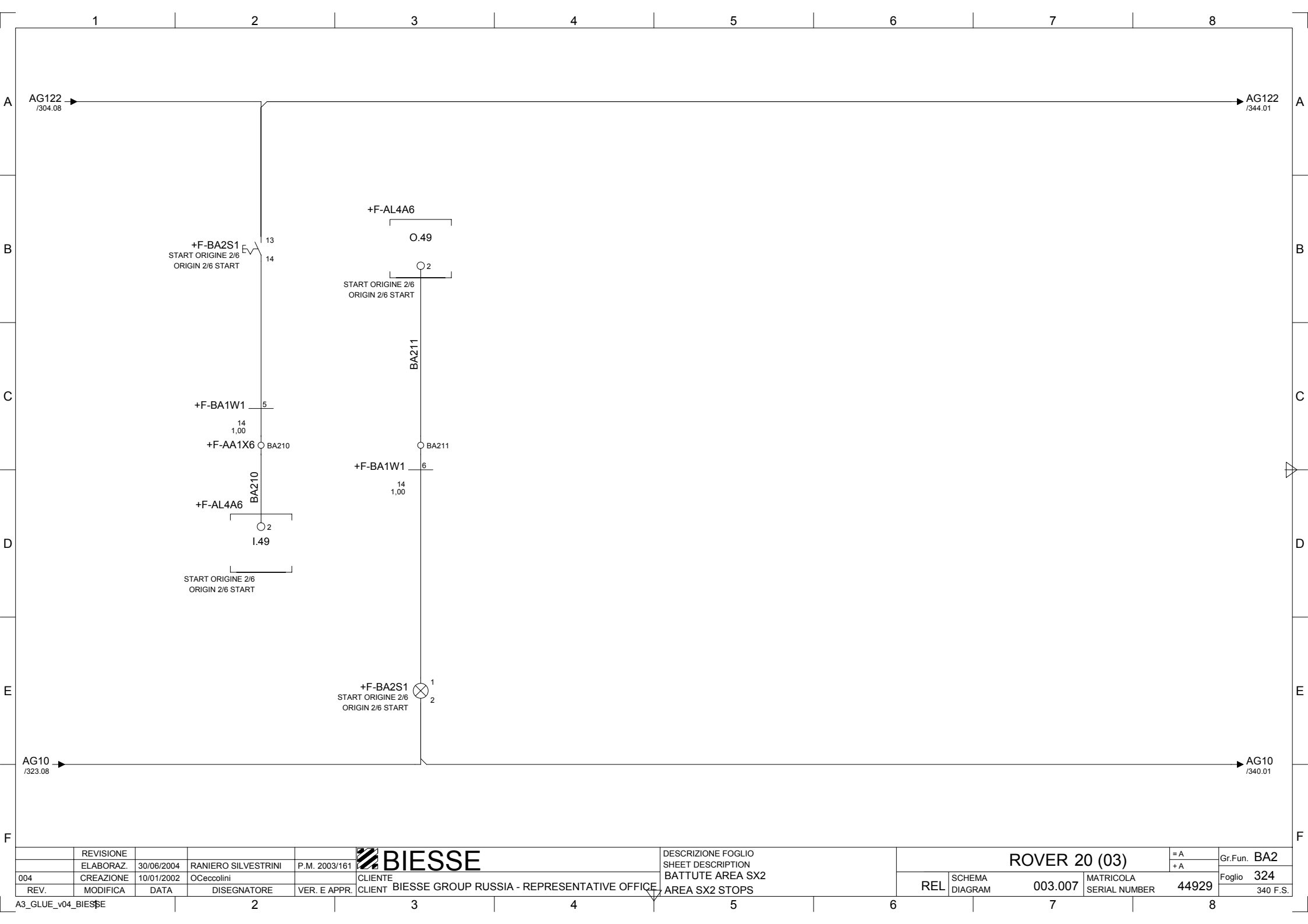
+F-BA1Y9
 SICUREZZA BATTUTE AREA SX
 LH AREA STOPS SAFETY




						DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA SX1 AREA SX1 STOPS			ROVER 20 (03)		= A	Gr.Fun. BA1
000	REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI					P.M. 2003/161	REL	SCHEMA DIAGRAM	003.007
	REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						323 F.S.



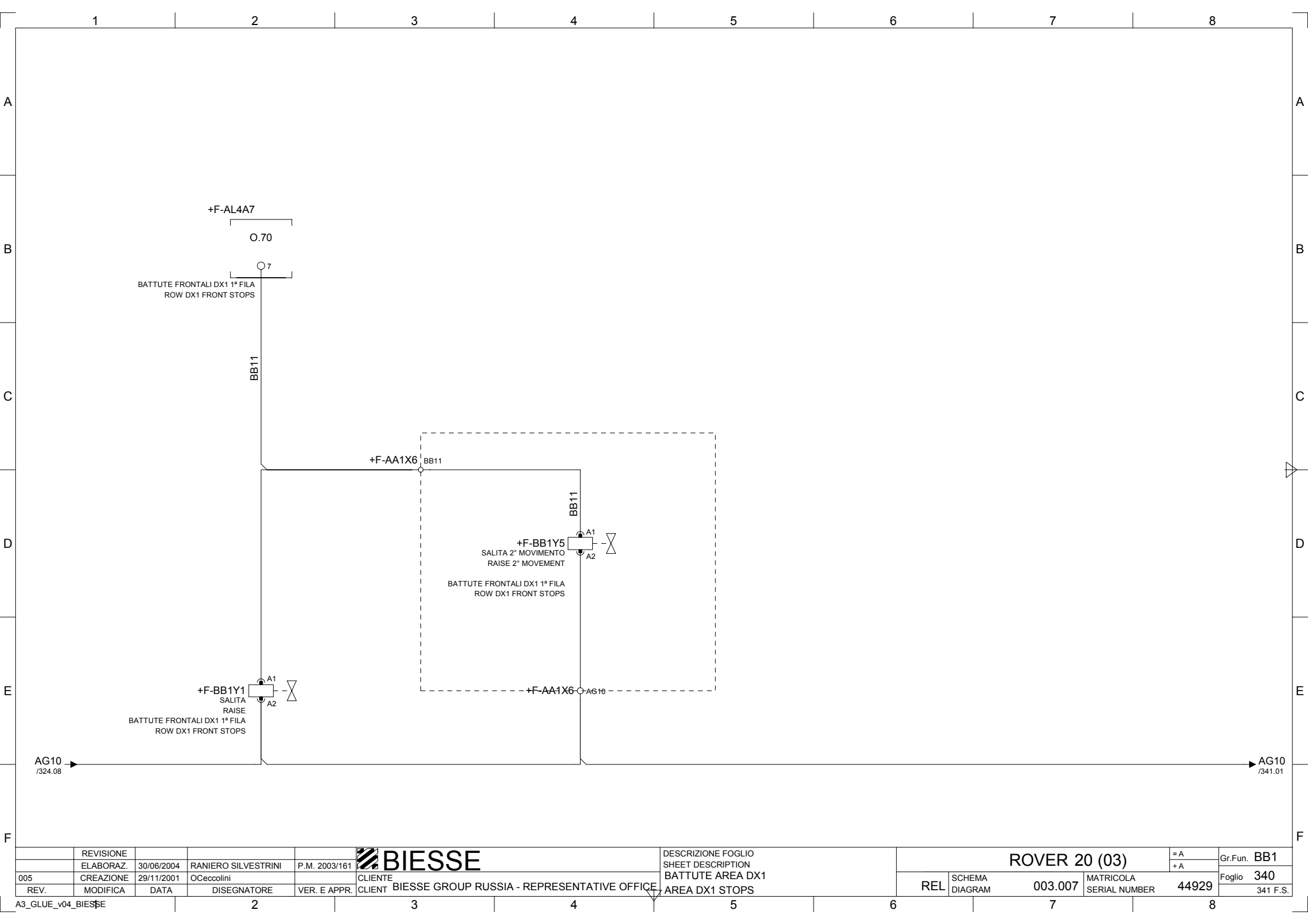
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA SX2 AREA SX2 STOPS	ROVER 20 (03)		= A	Gr.Fun. BA2			
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A				
004	CREAZIONE	14/01/2002	OCeccolini				CLIENTE	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 323
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						324 F.S.



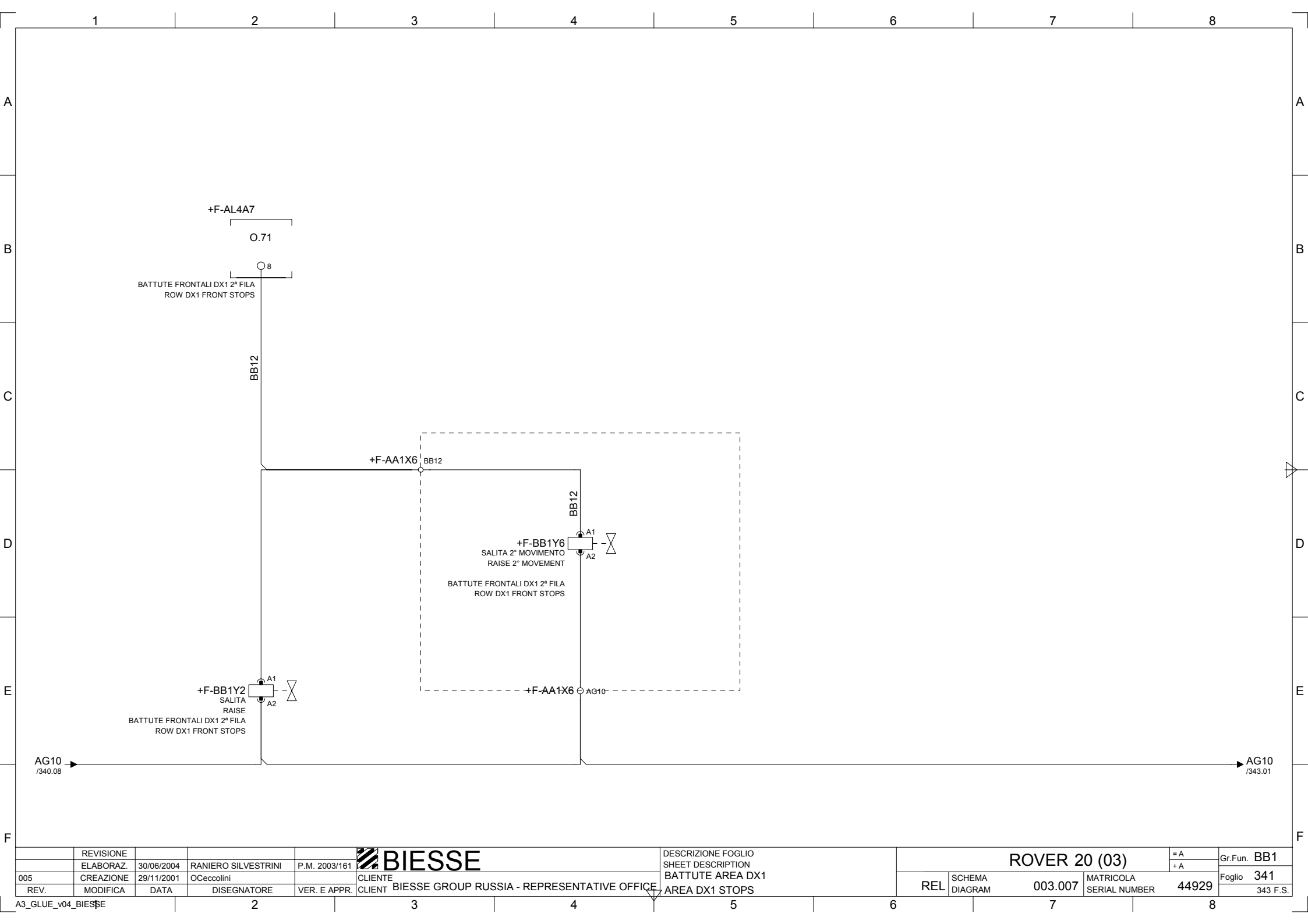
	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	 BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
004	CREAZIONE	10/01/2002	OCeccolini		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 BATTUTE AREA SX2
 AREA SX2 STOPS

ROVER 20 (03)				= A	Gr.Fun. BA2
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 324 340 F.S.



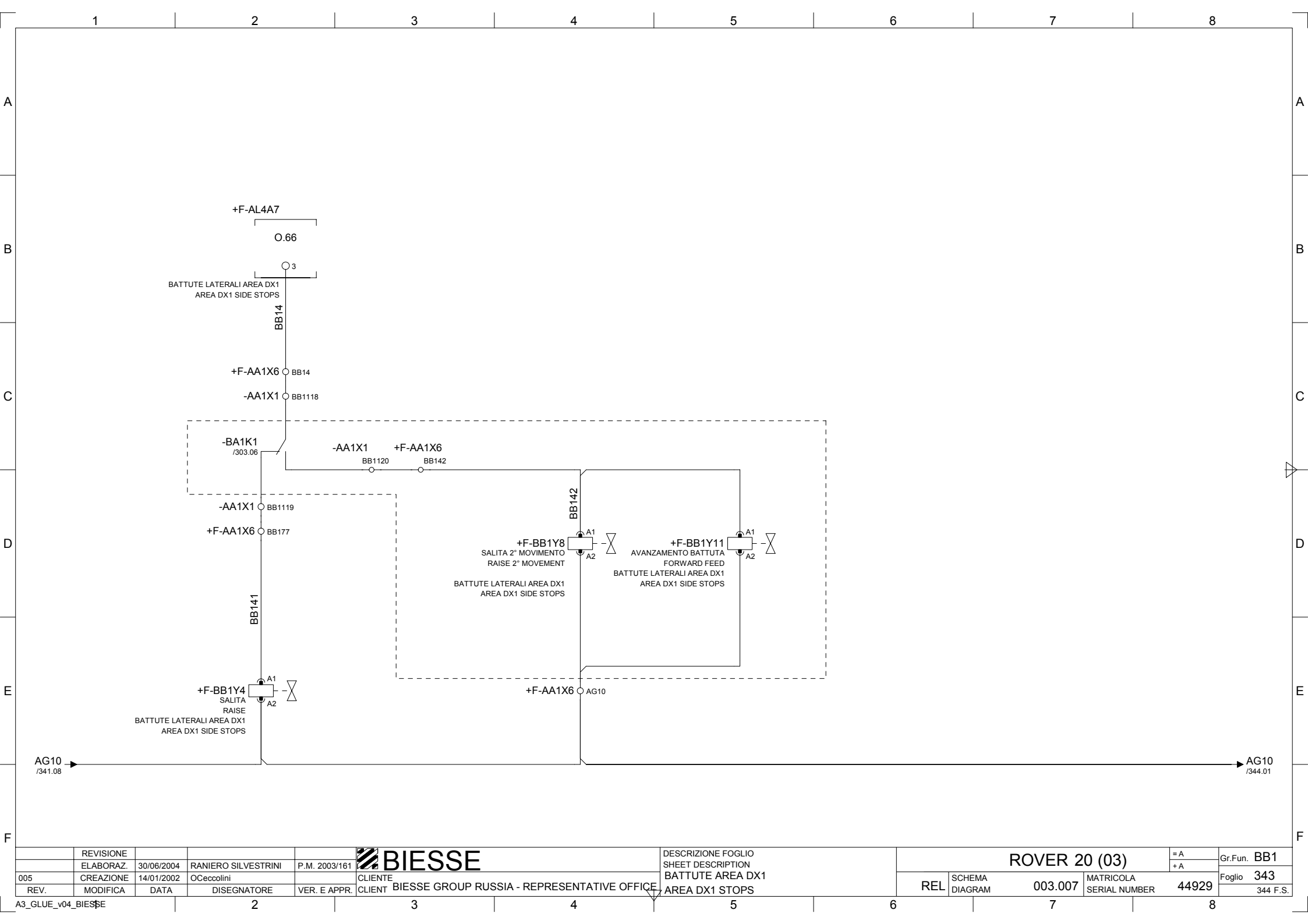
	REVISIONE					DESCRIZIONE FOLGIO SHEET DESCRIPTION BATTUTE AREA DX1 AREA DX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BB1		
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A			
005	CREAZIONE	29/11/2001	OCeccolini				CLIENTE	REL	SCHEMA	003.007	MATRICOLA	Foglio 340
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DIAGRAM			SERIAL NUMBER	44929



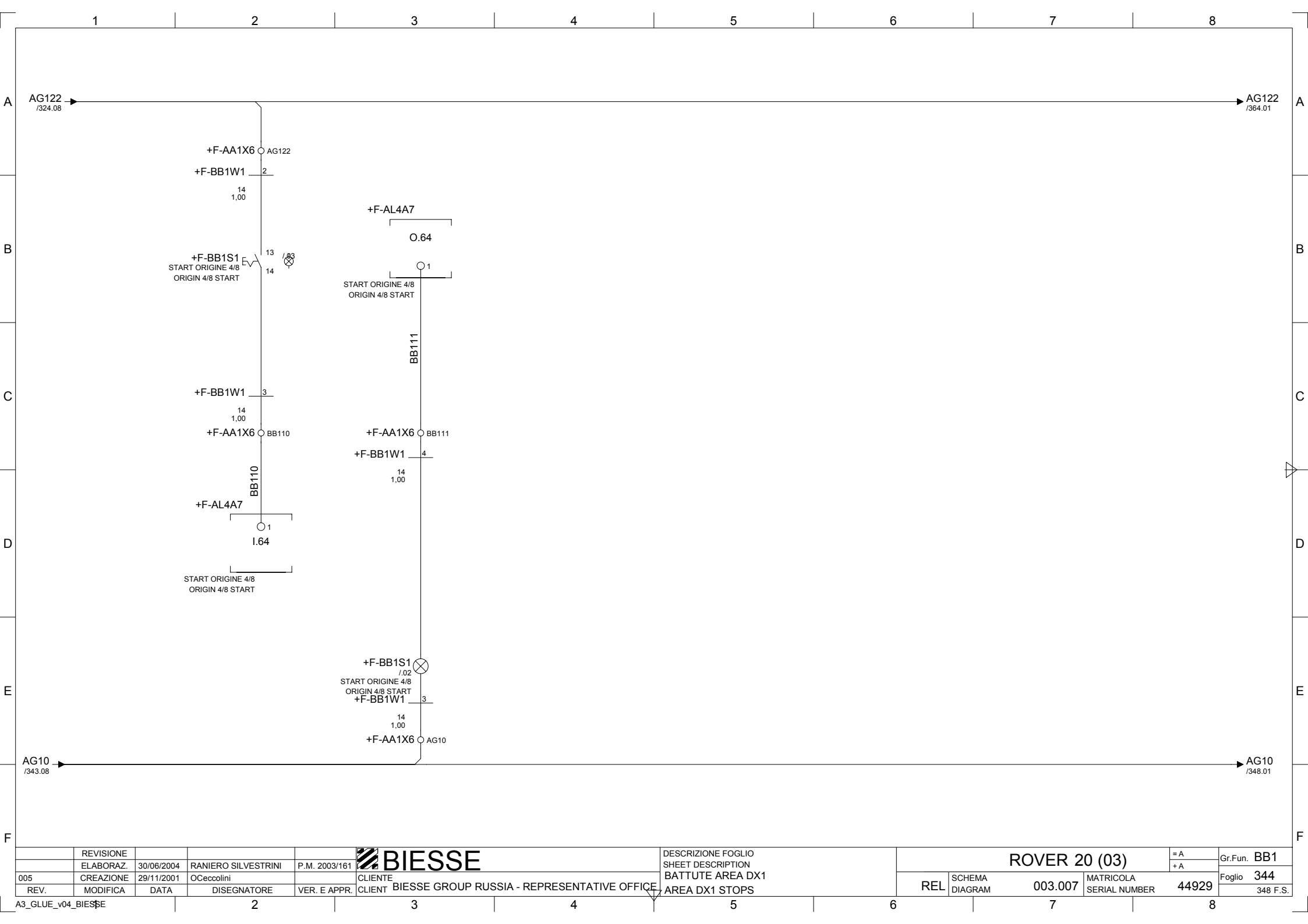
	REVISIONE					DESCRIZIONE FOLGIO SHEET DESCRIPTION BATTUTE AREA DX1 AREA DX1 STOPS	ROVER 20 (03)	= A + A	Gr.Fun. BB1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					
005	CREAZIONE	29/11/2001	OCeccolini	CLIENTE					
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

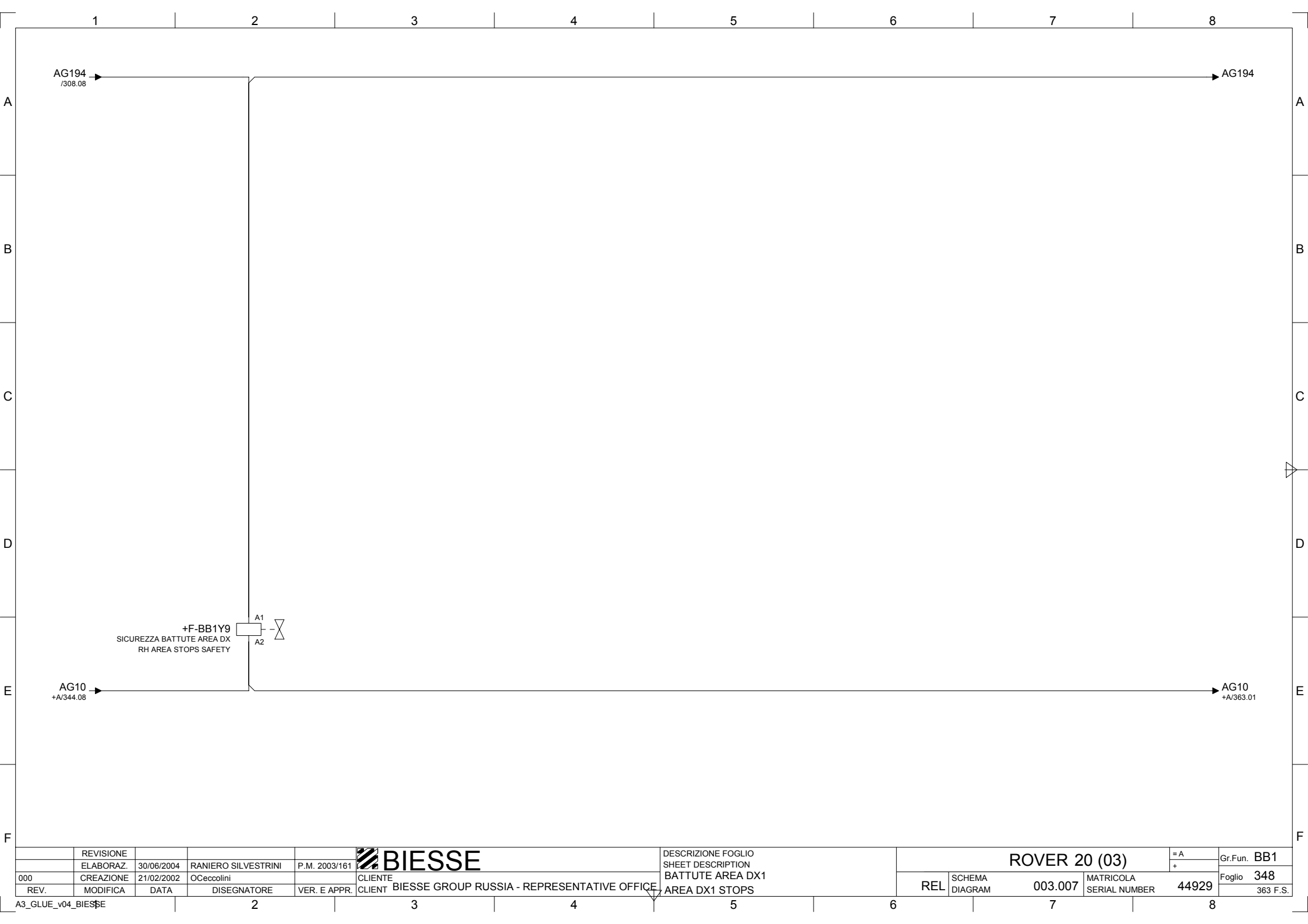
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					343 F.S.



	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA DX1 AREA DX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BB1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A	
005	CREAZIONE	14/01/2002	OCeccolini	CLIENTE			REL SCHEMA DIAGRAM 003.007	MATRICOLA SERIAL NUMBER 44929	Foglio 343	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	344 F.S.



	REVISIONE					DESCRIZIONE FOLGIO SHEET DESCRIPTION BATTUTE AREA DX1 AREA DX1 STOPS	ROVER 20 (03)		= A	Gr.Fun. BB1		
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A			
005	CREAZIONE	29/11/2001	OCeccolini				CLIENTE	REL SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 344
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT					BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE



AG194
/308.08


AG194

AG10
+A/344.08

AG10
+A/363.01

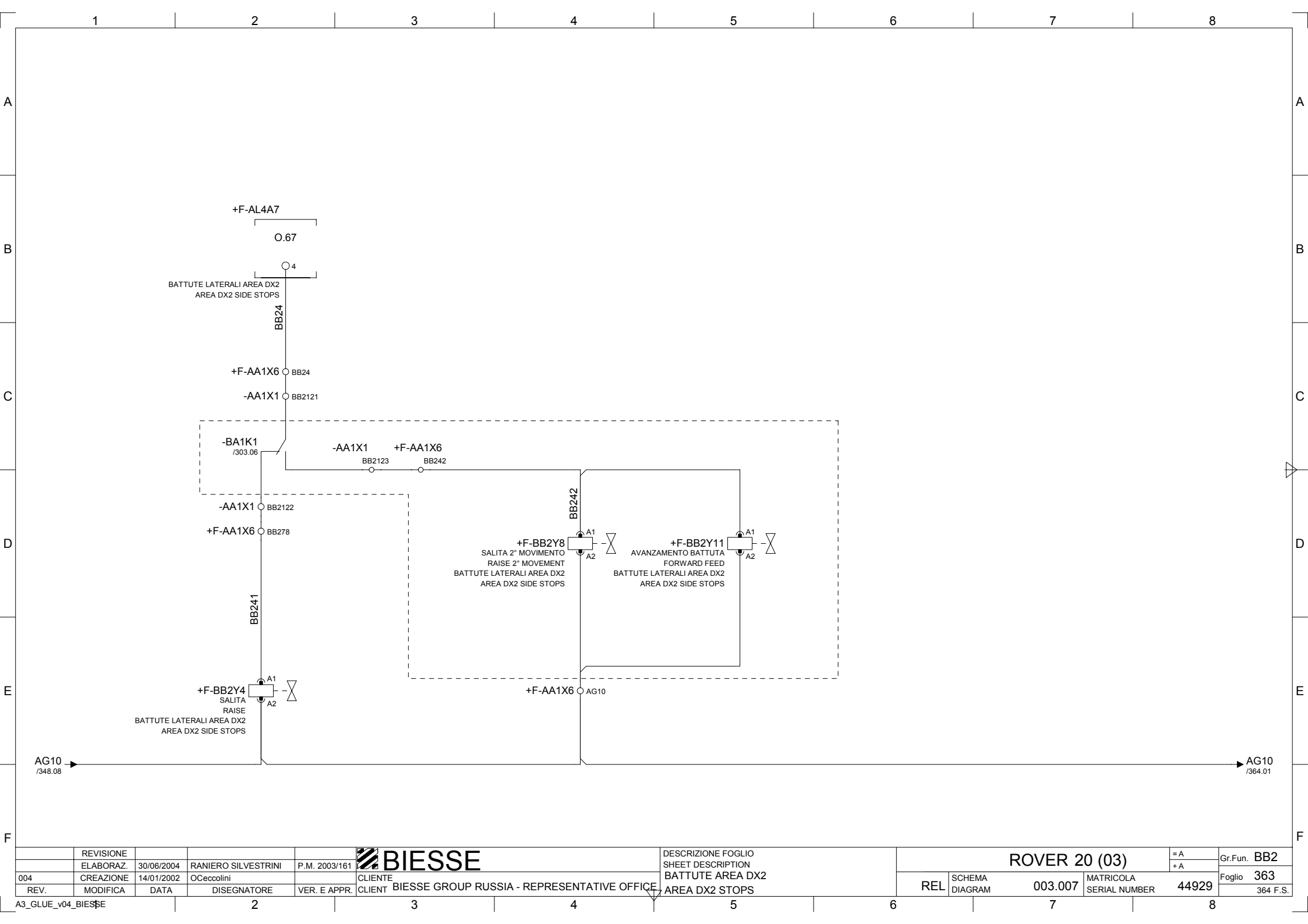
+F-BB1Y9
SICUREZZA BATTUTE AREA DX
RH AREA STOPS SAFETY

A1
A2

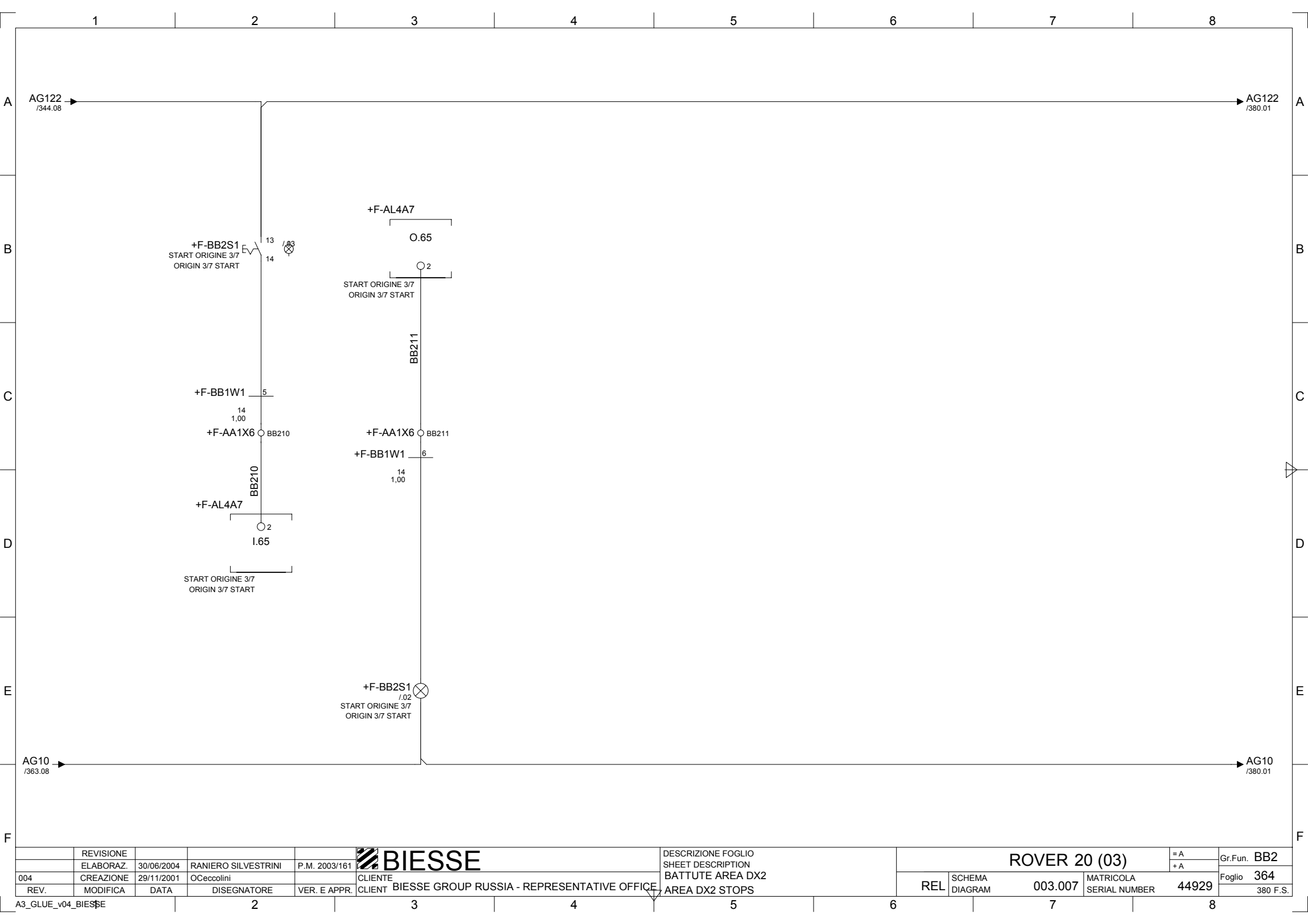
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA DX1 AREA DX1 STOPS	ROVER 20 (03)	= A +	Gr.Fun. BB1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					
000	CREAZIONE	21/02/2002	OCeccolini	CLIENTE					
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 348 363 F.S.
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	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BATTUTE AREA DX2 AREA DX2 STOPS	ROVER 20 (03)		= A	Gr.Fun. BB2		
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					+ A			
004	CREAZIONE	14/01/2002	OCeccolini				CLIENTE	REL	SCHEMA	003.007	MATRICOLA	Foglio 363
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.			CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DIAGRAM			SERIAL NUMBER	44929

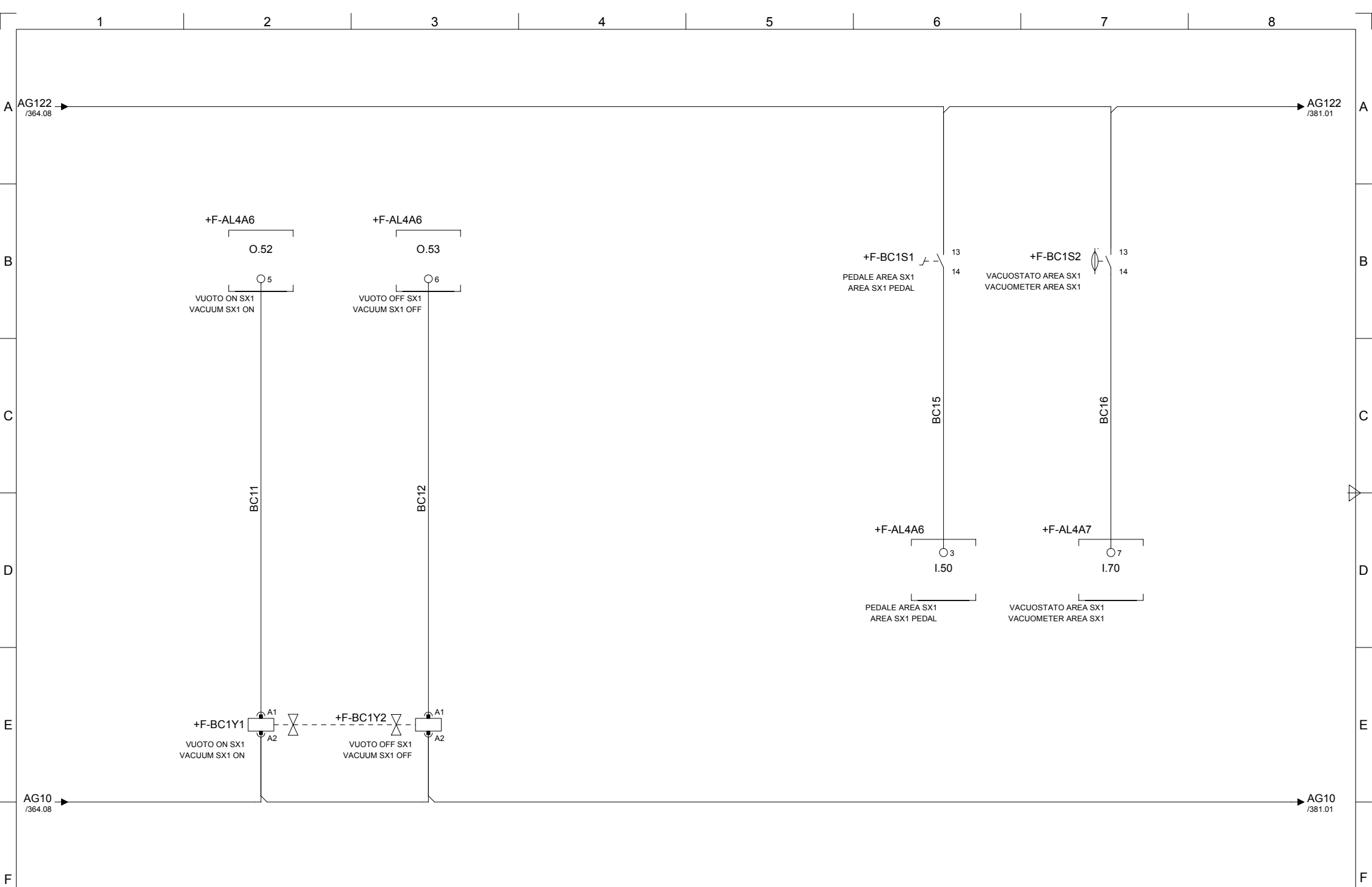


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
004	CREAZIONE	29/11/2001	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 AREA DX2 STOPS

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 BATTUTE AREA DX2

ROVER 20 (03)				= A	Gr.Fun. BB2
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 364
					380 F.S.



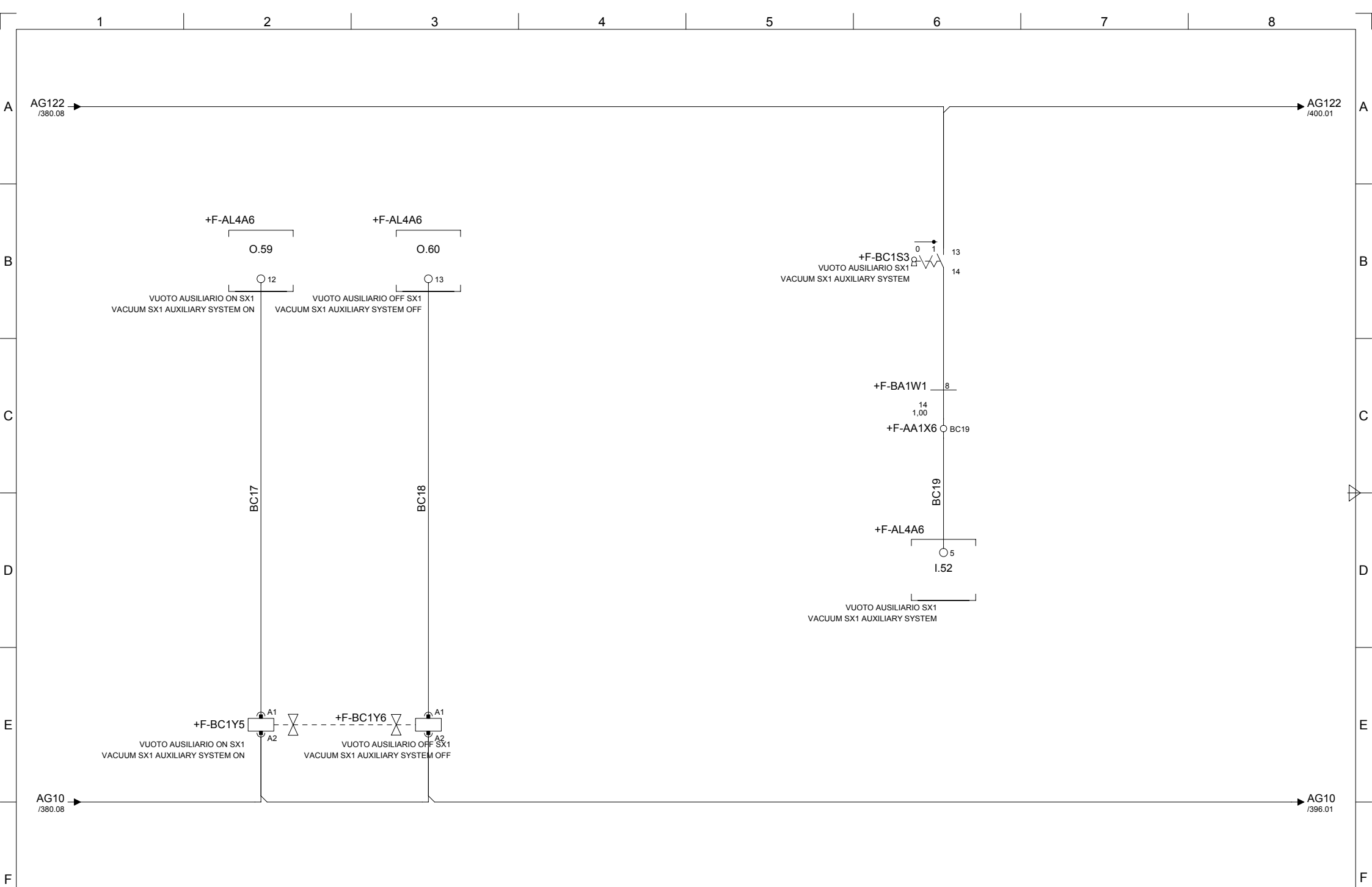
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	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
006	CREAZIONE	29/11/2001	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 BLOCCAGGIO PEZZO AREA SX1
 AREA SX1 PIECE LOCKING

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	= A	Gr.Fun. BC1
					+ A	

Foglio	380
	381 F.S.

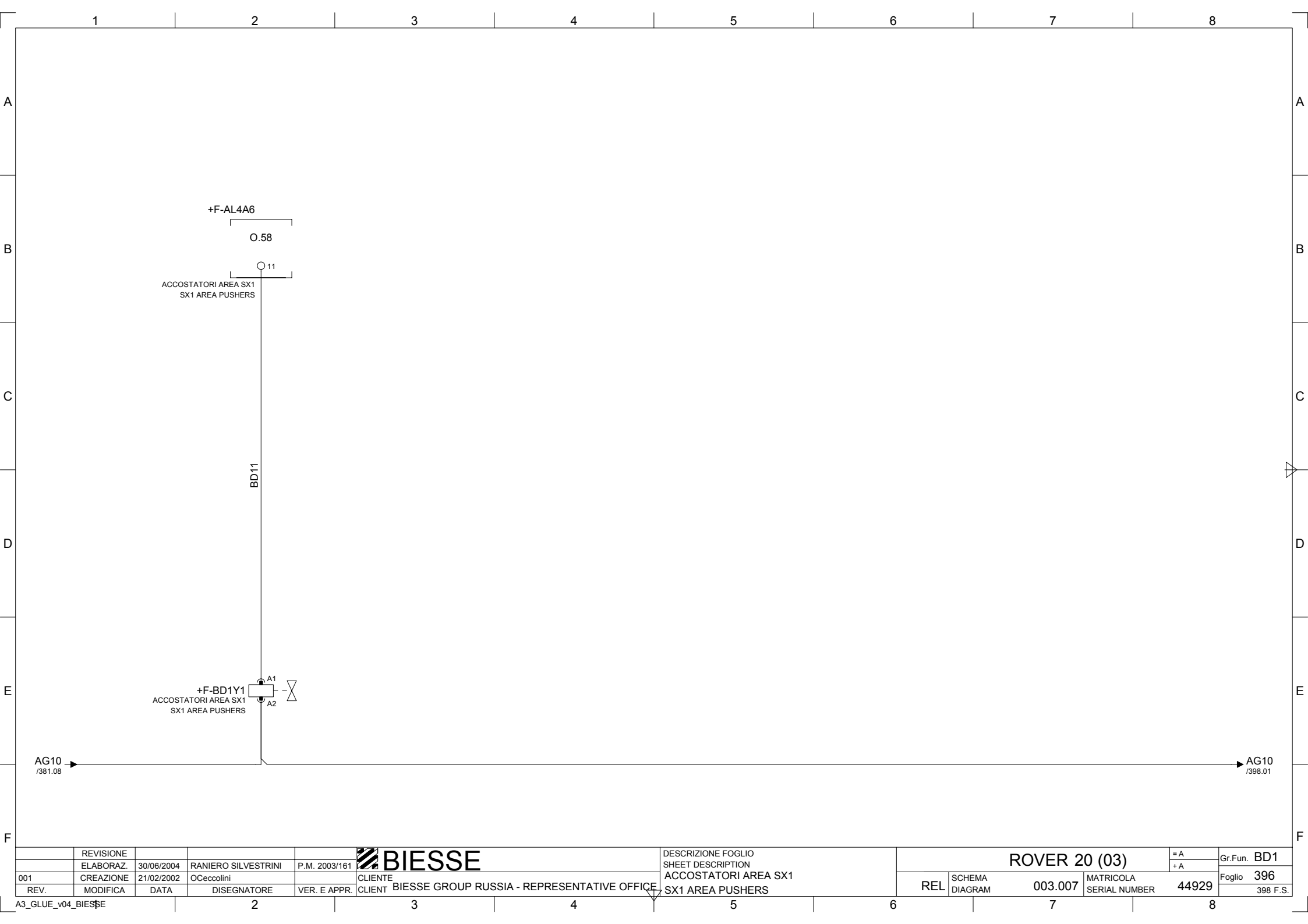


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
004	CREAZIONE	29/11/2001	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 BLOCCAGGIO PEZZO AREA SX1
 AREA SX1 PIECE LOCKING

ROVER 20 (03)			= A	Gr.Fun. BC1	
			+ A		
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 381
				396 F.S.	



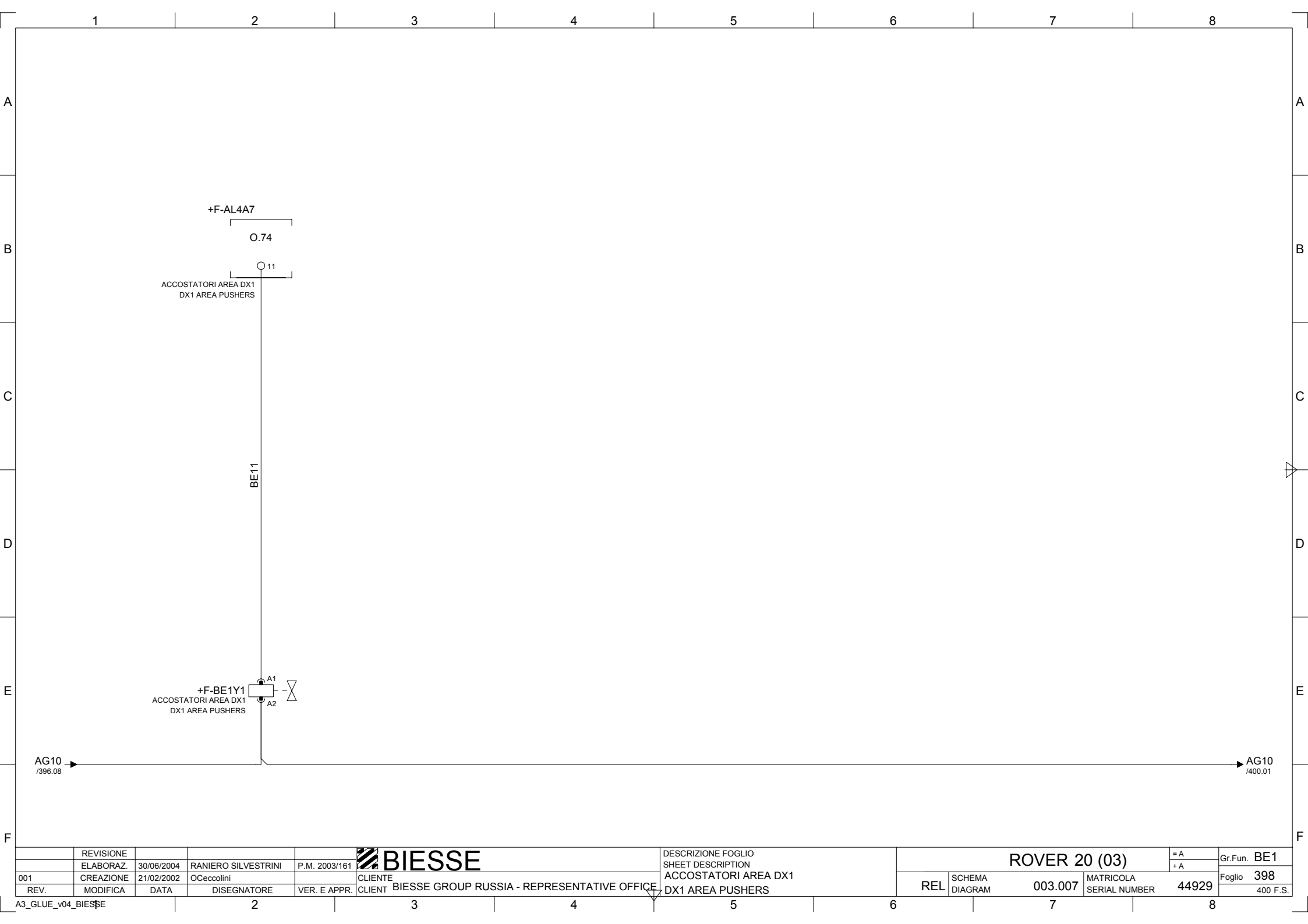
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	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
001	CREAZIONE	21/02/2002	OCeccolini		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 ACCOSTATORI AREA SX1
 SX1 AREA PUSHERS

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	

= A	Gr.Fun. BD1
+ A	Foglio 396
	398 F.S.



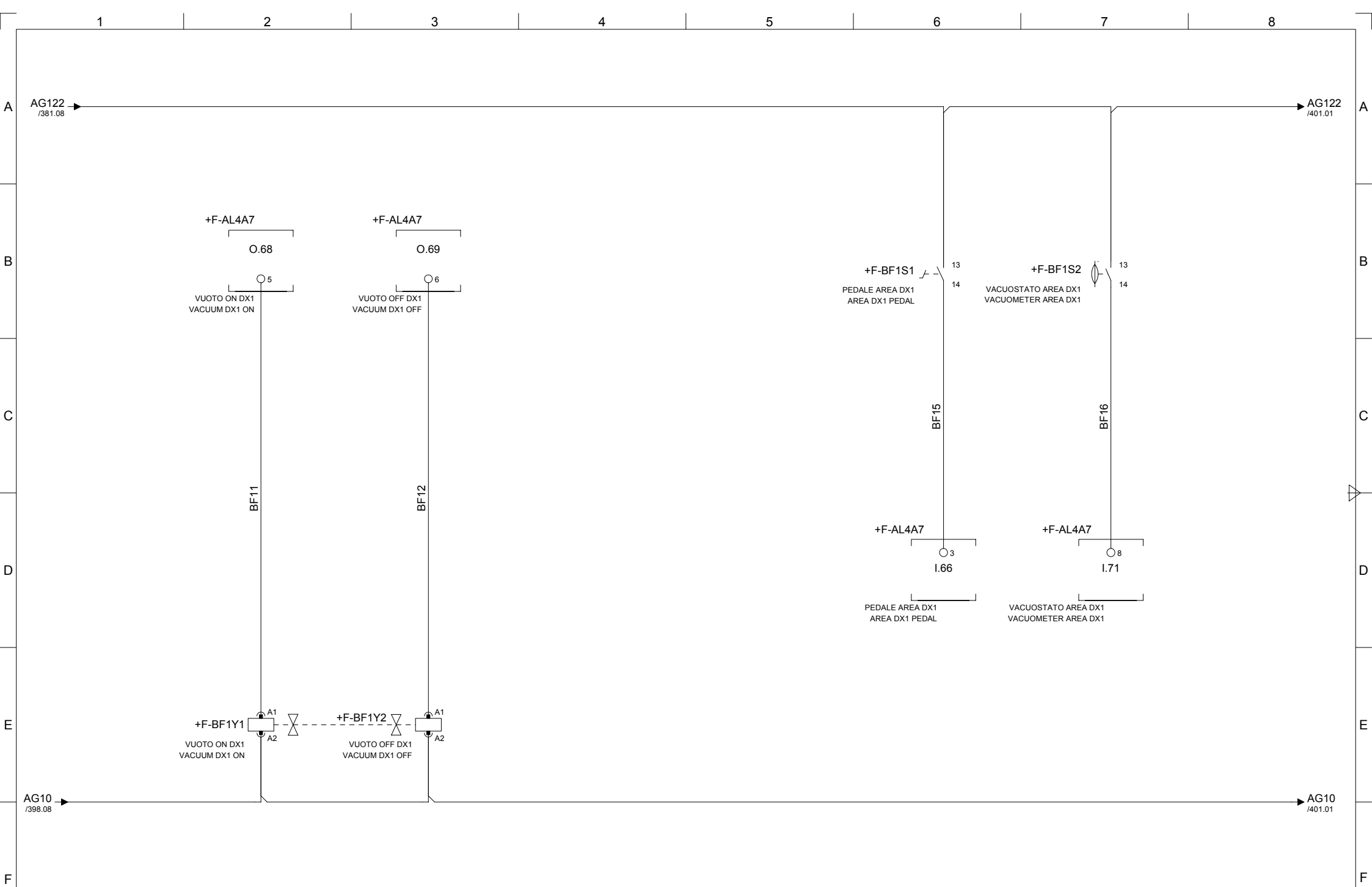
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	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 ACCOSTATORI AREA DX1
 DX1 AREA PUSHERS

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929
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Gr.Fun.	BE1
Foglio	398
	400 F.S.



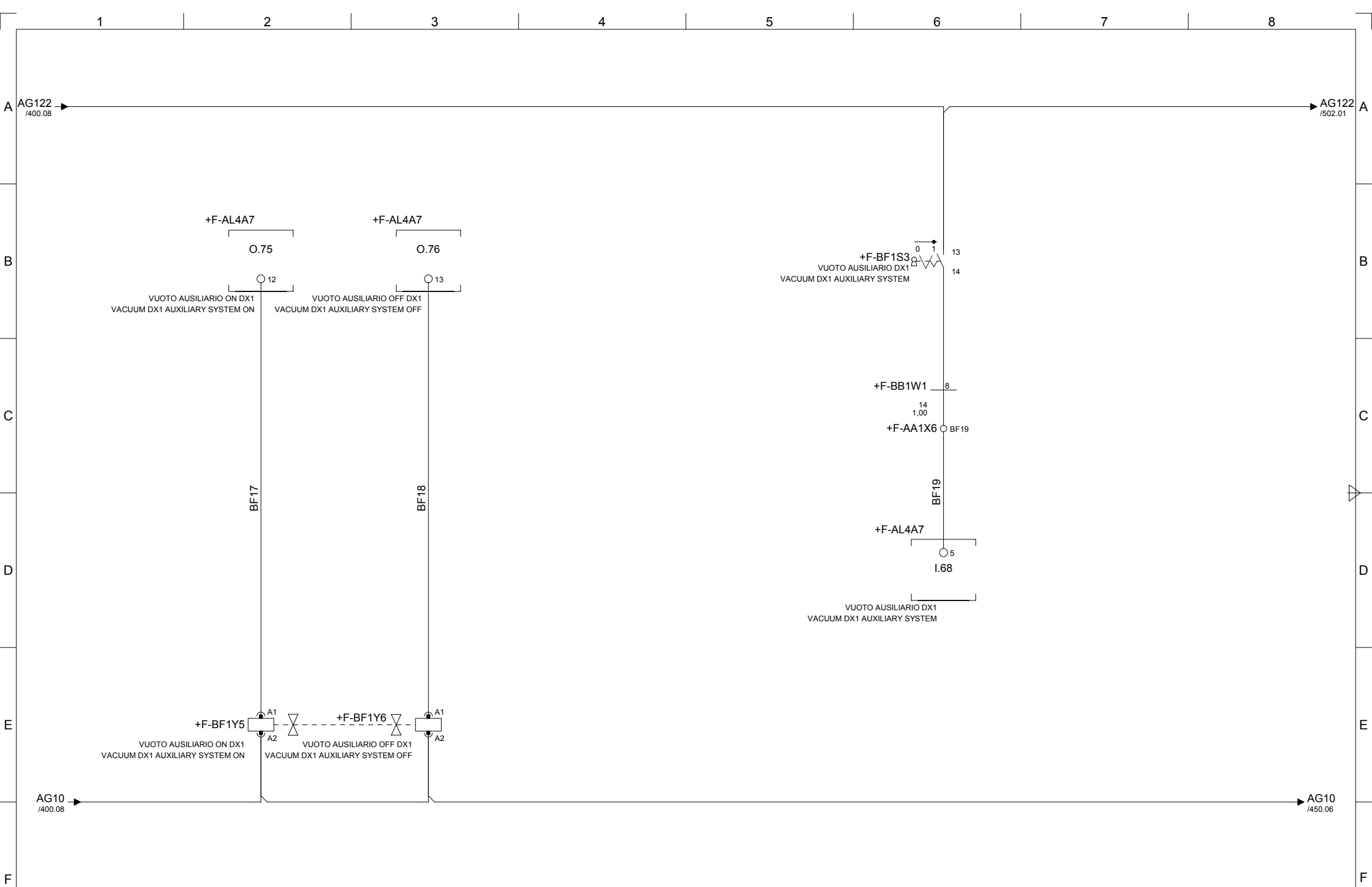
	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
006	CREAZIONE	29/11/2001	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

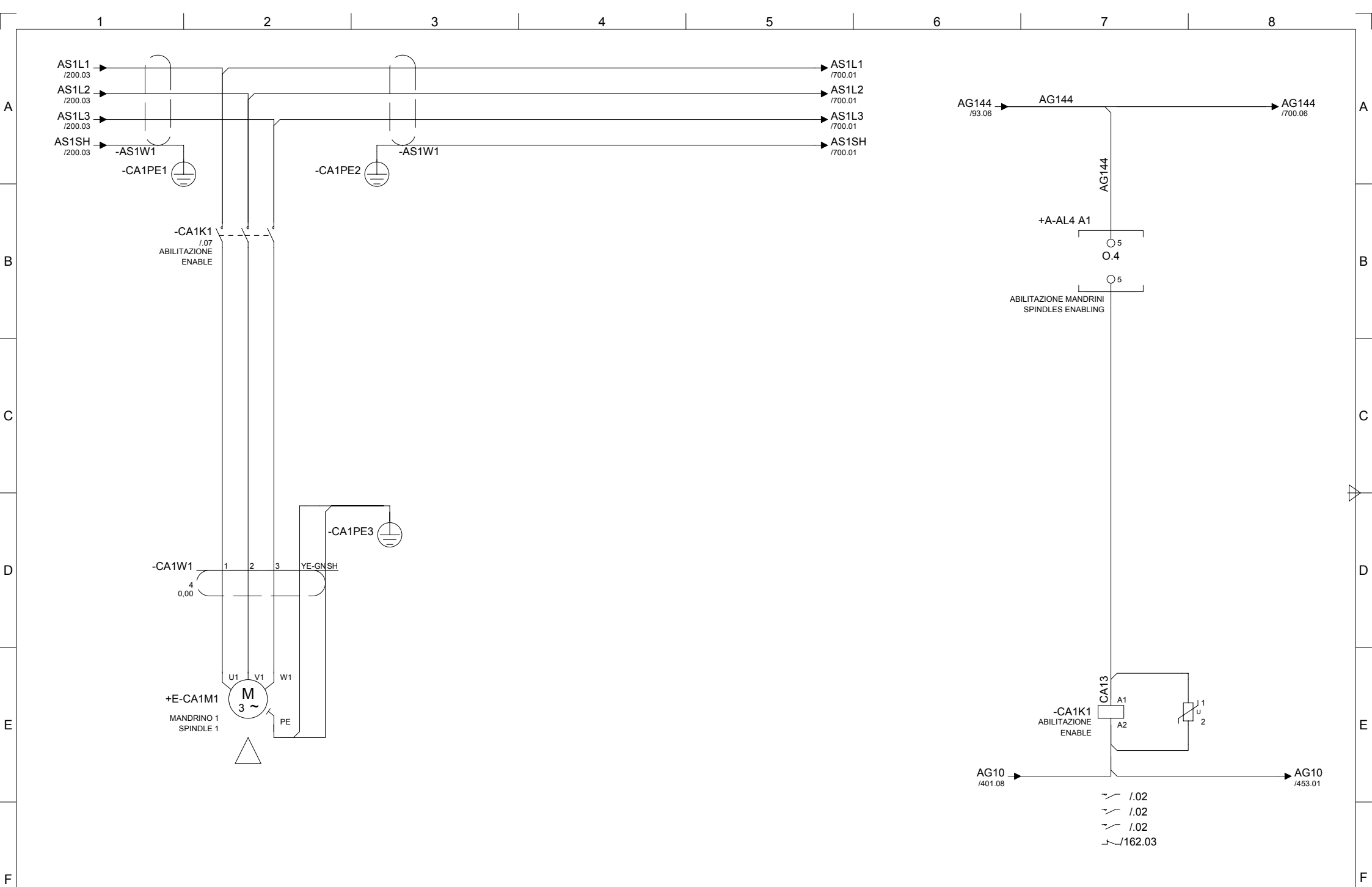
DESCRIZIONE FOGLIO
SHEET DESCRIPTION
BLOCCAGGIO PEZZO AREA DX1
AREA DX1 PIECE LOCKING

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	= A	Gr.Fun. BF1
					+ A	

Foglio	400
	401 F.S.



						DESCRIZIONE FOGLIO			ROVER 20 (03)		= A	Gr.Fun. BF1			
						SHEET DESCRIPTION			BLOCCAGGIO PEZZO AREA DX1		+ A	Foglio 401			
					CLIENTE			AREA DX1 PIECE LOCKING		REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	450 F.S.
					VER. E APPR.										

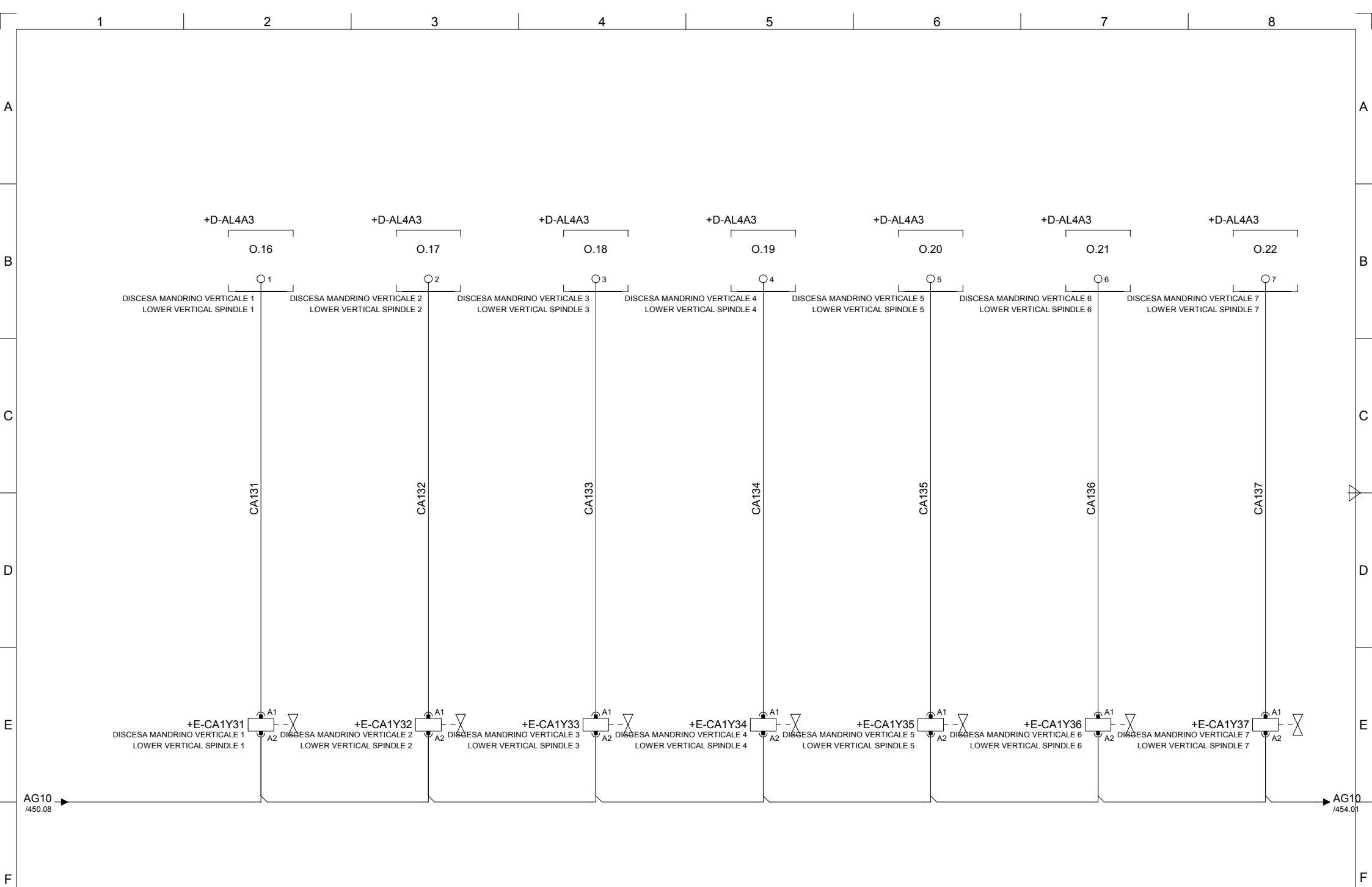


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
002	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT

BIESSE
 GRUPPO DI FORATURA
 BORING UNIT
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

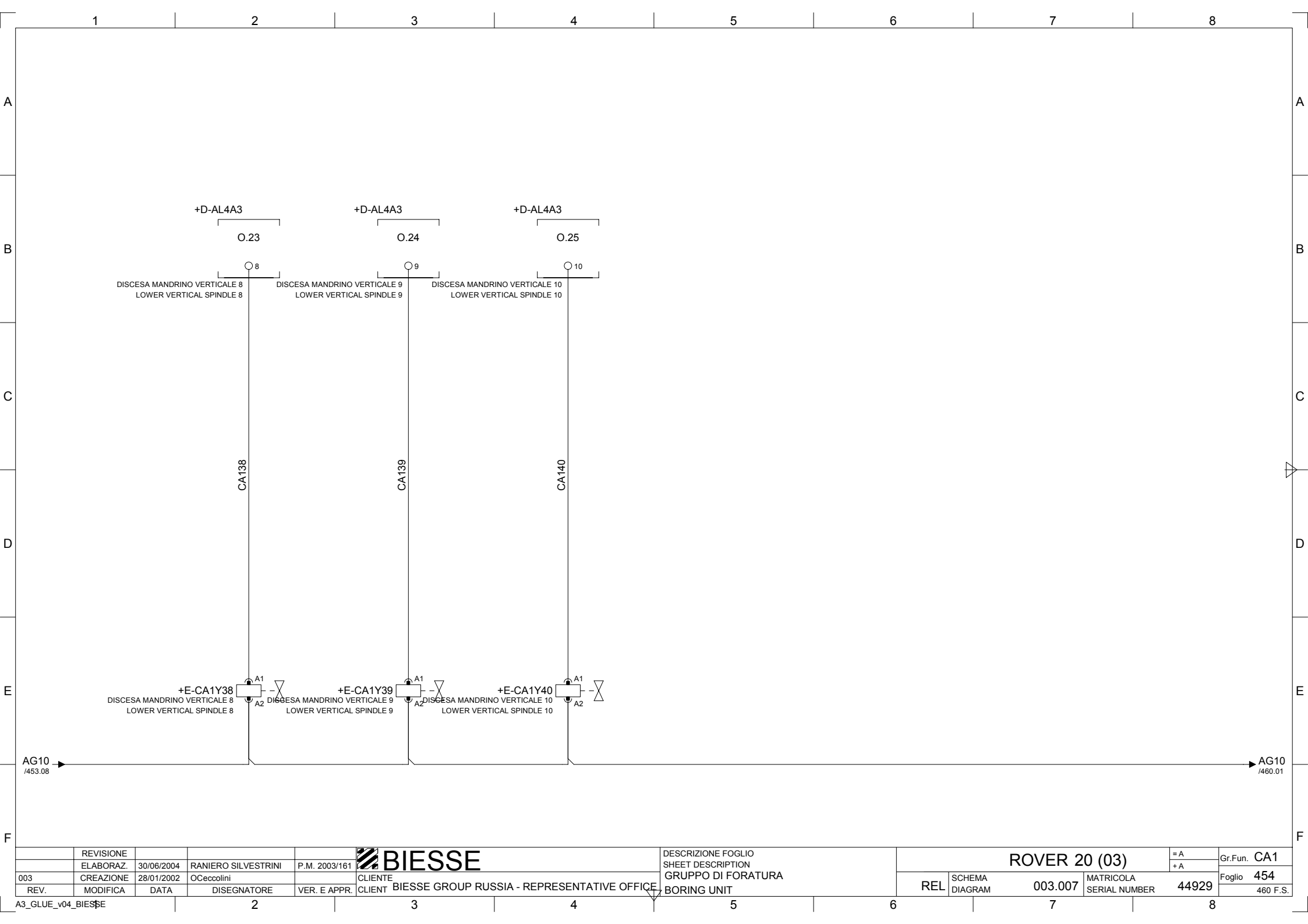
DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 GRUPPO DI FORATURA
 BORING UNIT

ROVER 20 (03)				= A	Gr.Fun. CA1
				+ A	Foglio 450
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	453 F.S.



	REVISIONE				 BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	28/01/2002	OCeccolini		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

DESCRIZIONE FOLGIO		ROVER 20 (03)	= A	Gr.Fun. CA1
SHEET DESCRIPTION				
GRUPPO DI FORATURA		003.007	MATRICOLA	Foglio 453
BORING UNIT		REL	SCHEMA DIAGRAM	454 F.S.
			SERIAL NUMBER	44929



	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	28/01/2002	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 BORING UNIT

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 GRUPPO DI FORATURA
 BORING UNIT

ROVER 20 (03)				= A	Gr.Fun. CA1
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 454
				+ A	460 F.S.

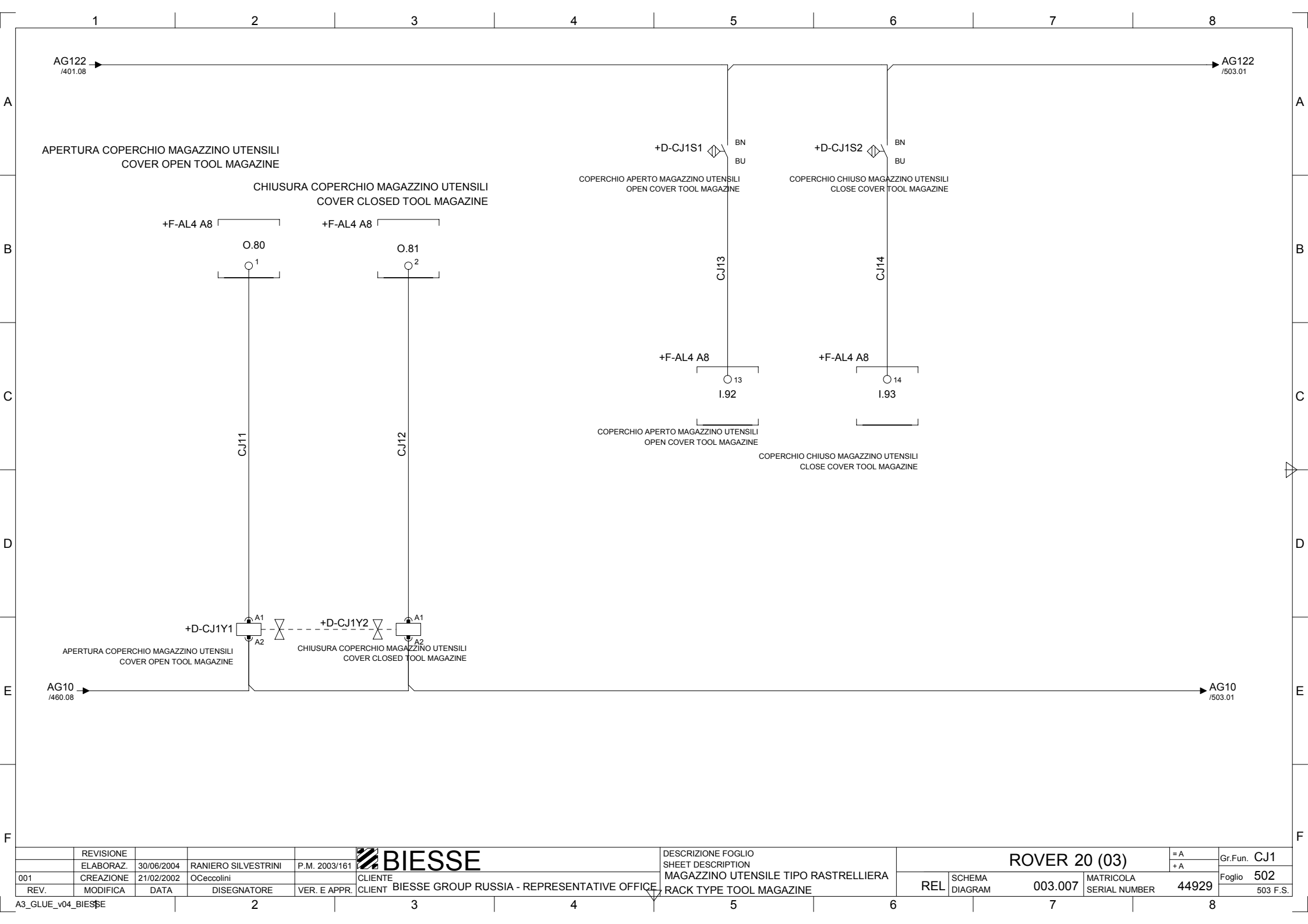


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
003	CREAZIONE	28/01/2002	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
 SHEET DESCRIPTION
 GRUPPO DI FORATURA
 BORING UNIT

ROVER 20 (03)				= A	Gr.Fun. CA1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 460
					502 F.S.



AG122 /401.08

AG122 /503.01

APERTURA COPERCHIO MAGAZZINO UTENSILI
COVER OPEN TOOL MAGAZINE

CHIUSURA COPERCHIO MAGAZZINO UTENSILI
COVER CLOSED TOOL MAGAZINE

+D-CJ1S1 BN BU
COPERCHIO APERTO MAGAZZINO UTENSILI
OPEN COVER TOOL MAGAZINE

+D-CJ1S2 BN BU
COPERCHIO CHIUSO MAGAZZINO UTENSILI
CLOSE COVER TOOL MAGAZINE

+F-AL4 A8

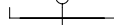
+F-AL4 A8

O.80

O.81

1

2



CJ13

CJ14

+F-AL4 A8

+F-AL4 A8

13

14

1.92

1.93

COPERCHIO APERTO MAGAZZINO UTENSILI
OPEN COVER TOOL MAGAZINE

COPERCHIO CHIUSO MAGAZZINO UTENSILI
CLOSE COVER TOOL MAGAZINE

CJ11

CJ12

+D-CJ1Y1 A1 A2

+D-CJ1Y2 A1 A2

APERTURA COPERCHIO MAGAZZINO UTENSILI
COVER OPEN TOOL MAGAZINE

CHIUSURA COPERCHIO MAGAZZINO UTENSILI
COVER CLOSED TOOL MAGAZINE

AG10 /460.08

AG10 /503.01

REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
001	CREAZIONE	21/02/2002	OCeccolini	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.



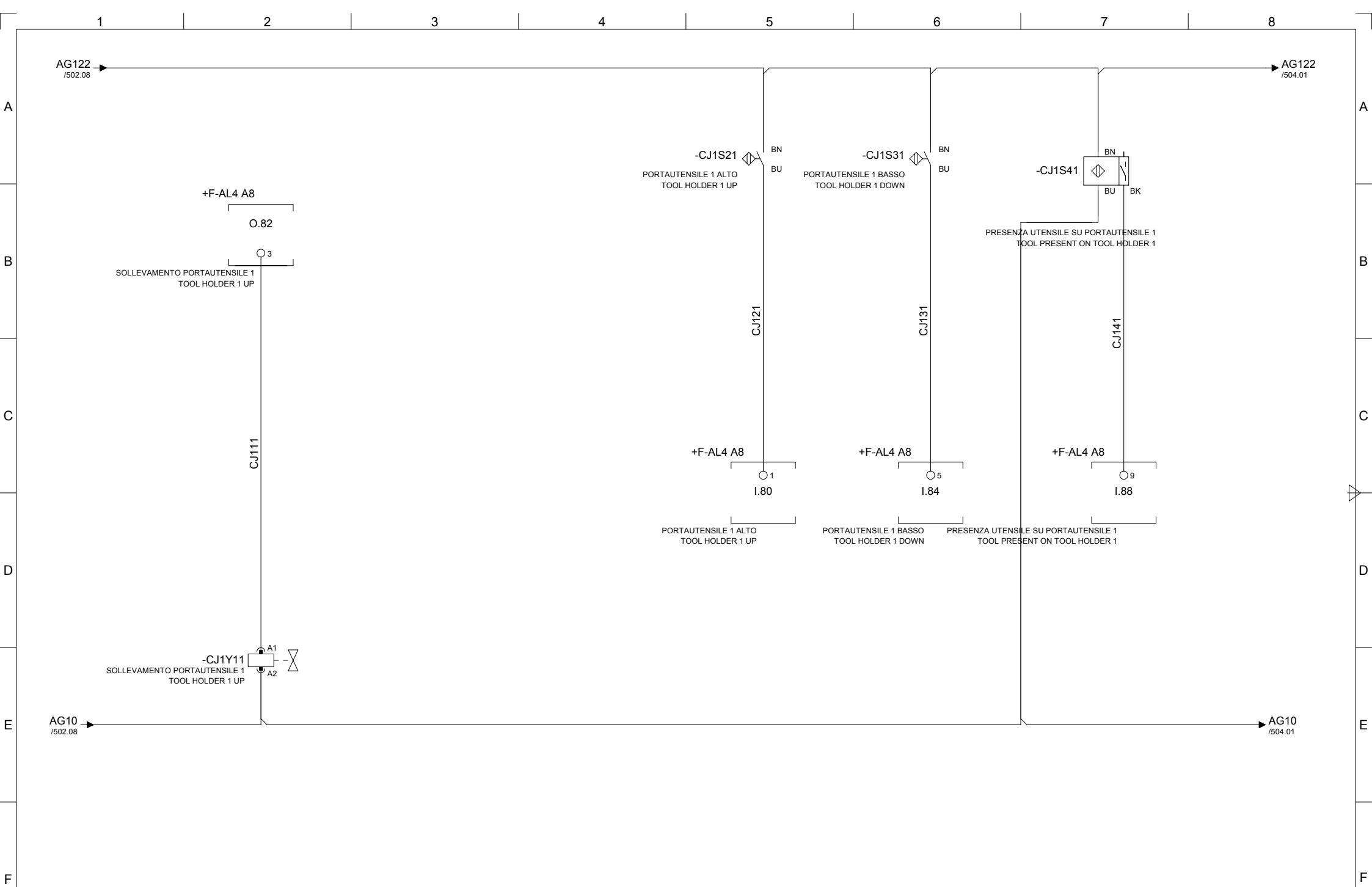
CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
MAGAZZINO UTENSILE TIPO RASTRELLIERA
RACK TYPE TOOL MAGAZINE

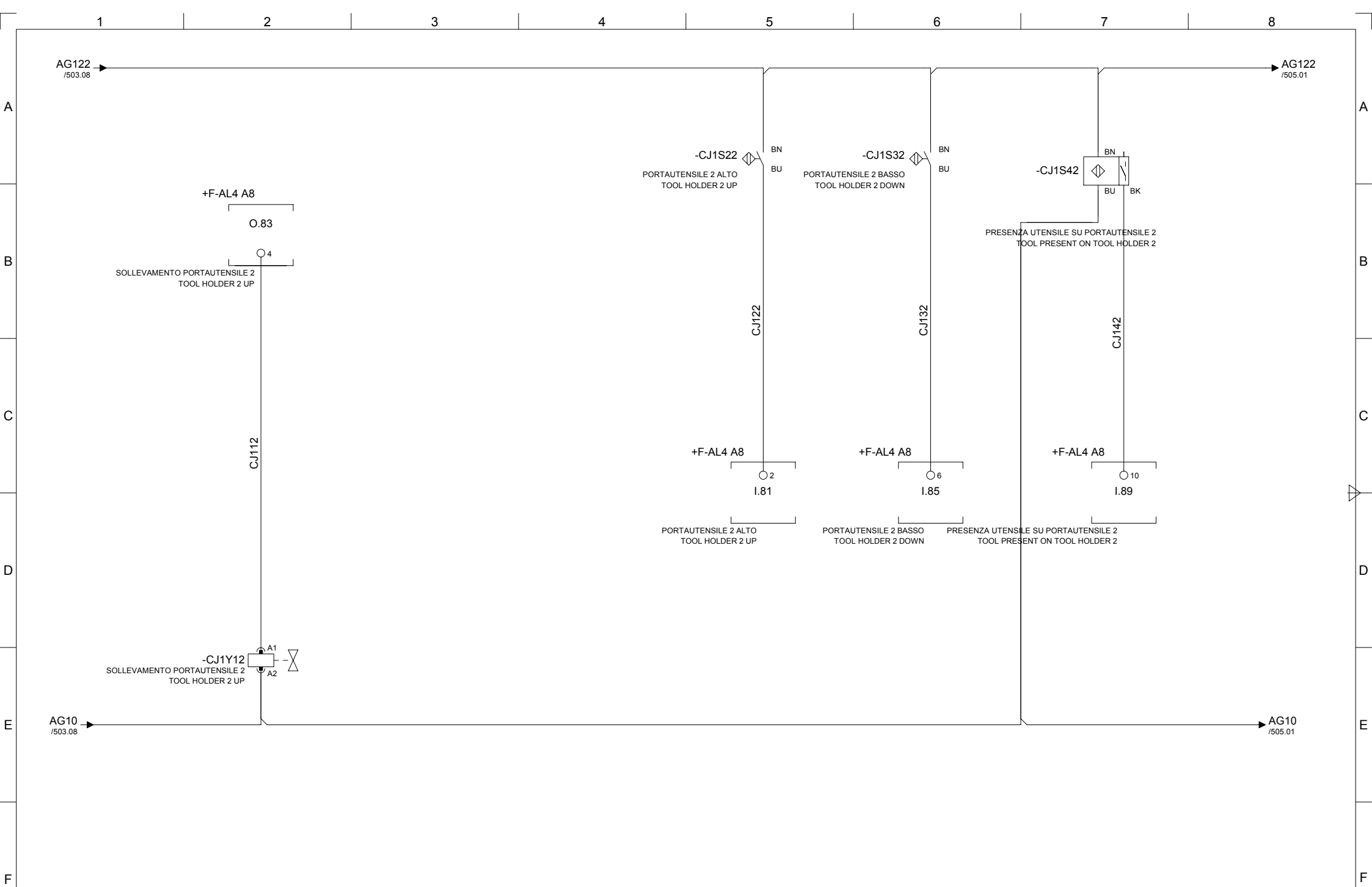
ROVER 20 (03)

REL SCHEMA DIAGRAM 003.007 MATRICOLA SERIAL NUMBER 44929

Gr.Fun. CJ1
Foglio 502
503 F.S.



						DESCRIZIONE FOGLIO			ROVER 20 (03)		= A	Gr.Fun. CJ1	
						SHEET DESCRIPTION			MAGAZZINO UTENSILE TIPO RASTRELLIERA		+ A	Foglio 503	
001	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE			REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	504 F.S.
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.									



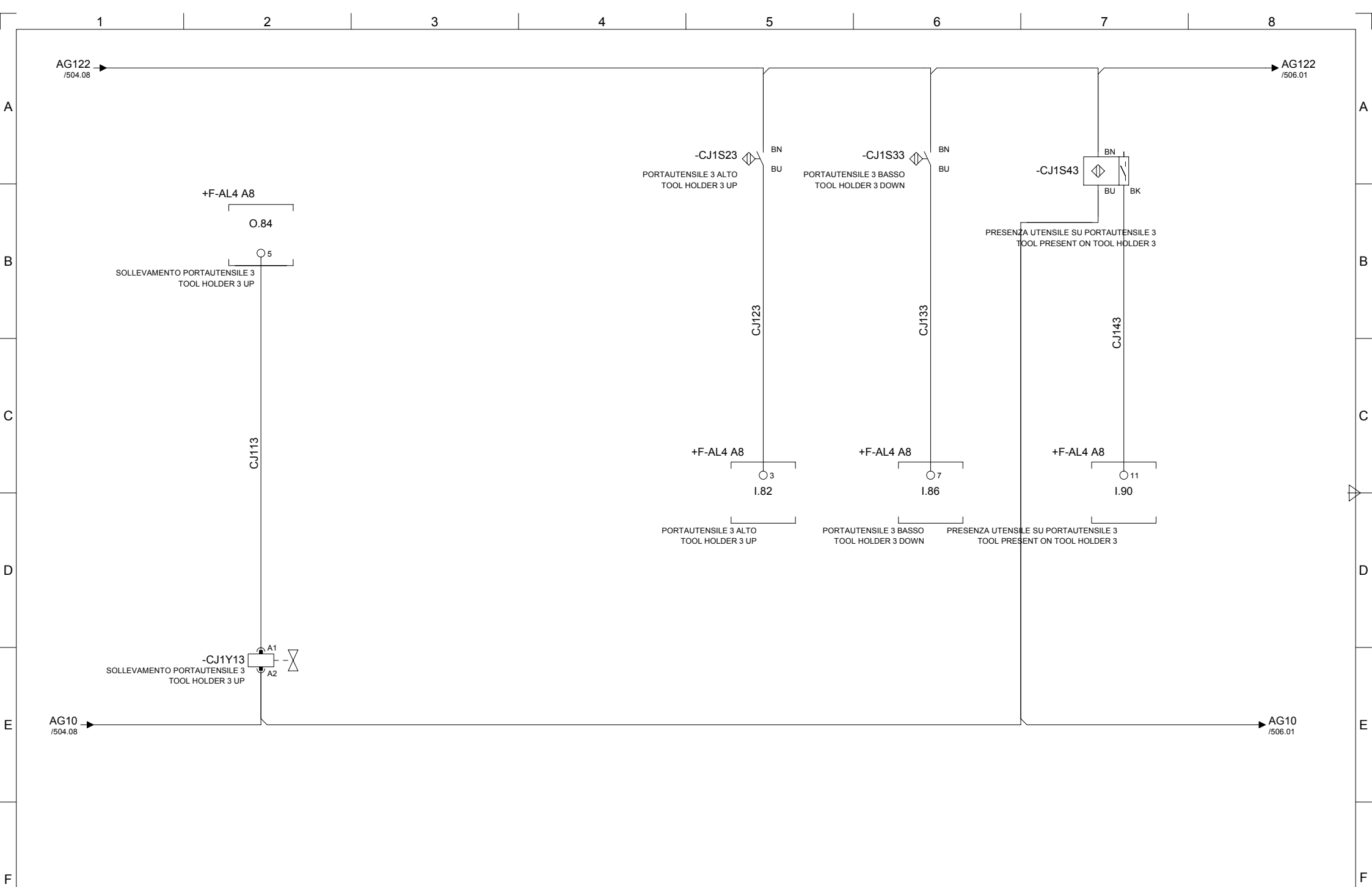
	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
001	CREAZIONE	02/06/2003	Rossi	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

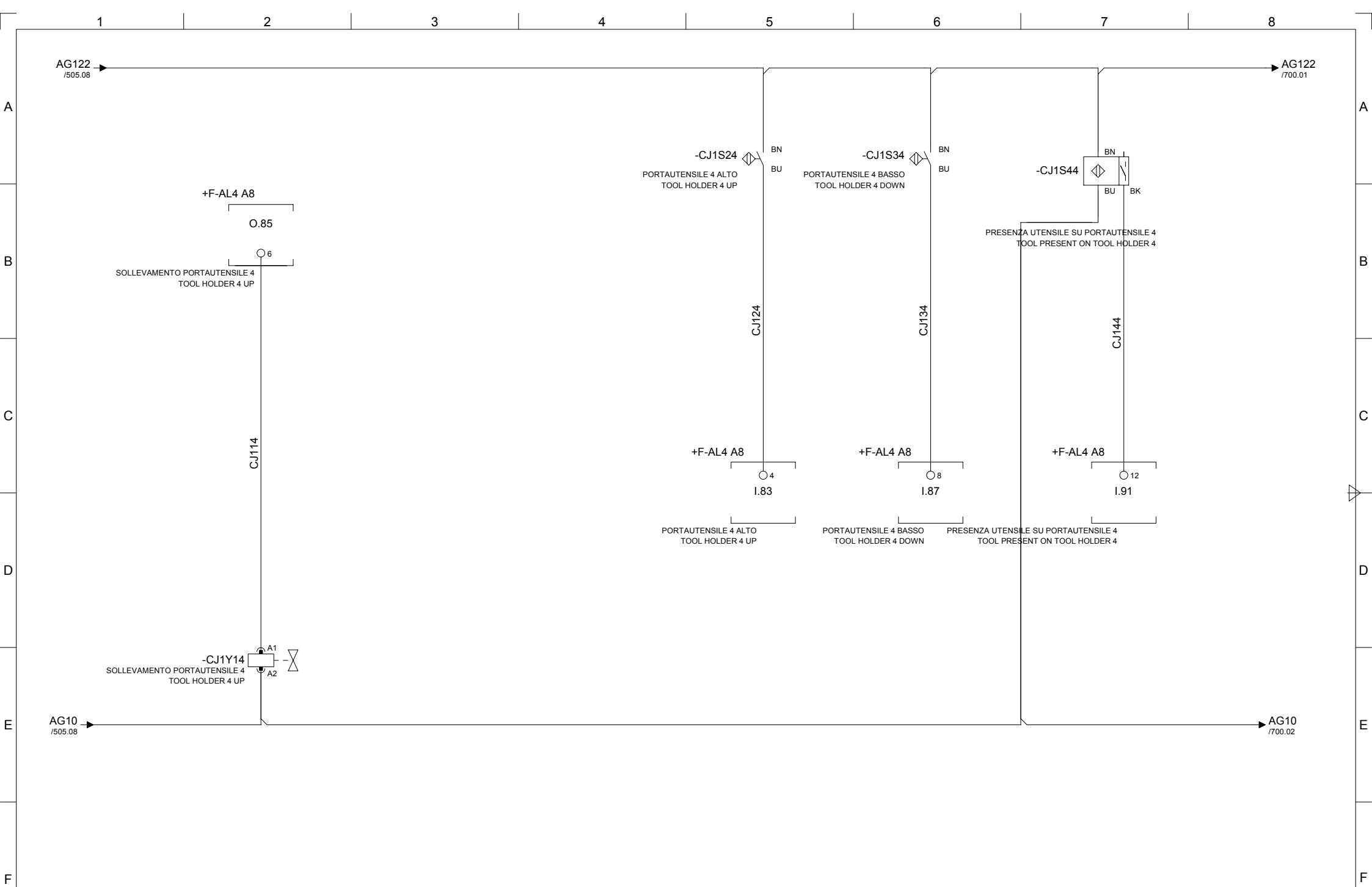
DESCRIZIONE FOGLIO
SHEET DESCRIPTION
MAGAZZINO UTENSILE TIPO RASTRELLIERA
RACK TYPE TOOL MAGAZINE

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	= A	Gr.Fun. CJ1
					+ A	

ROVER 20 (03)
Foglio 504
505 F.S.



						DESCRIZIONE FOGLIO			ROVER 20 (03)		= A	Gr.Fun. CJ1	
						SHEET DESCRIPTION			MAGAZZINO UTENSILE TIPO RASTRELLIERA		+ A	Foglio 505	
001	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE			REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	506 F.S.
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.									



	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
001	CREAZIONE	02/06/2003	Rossi	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

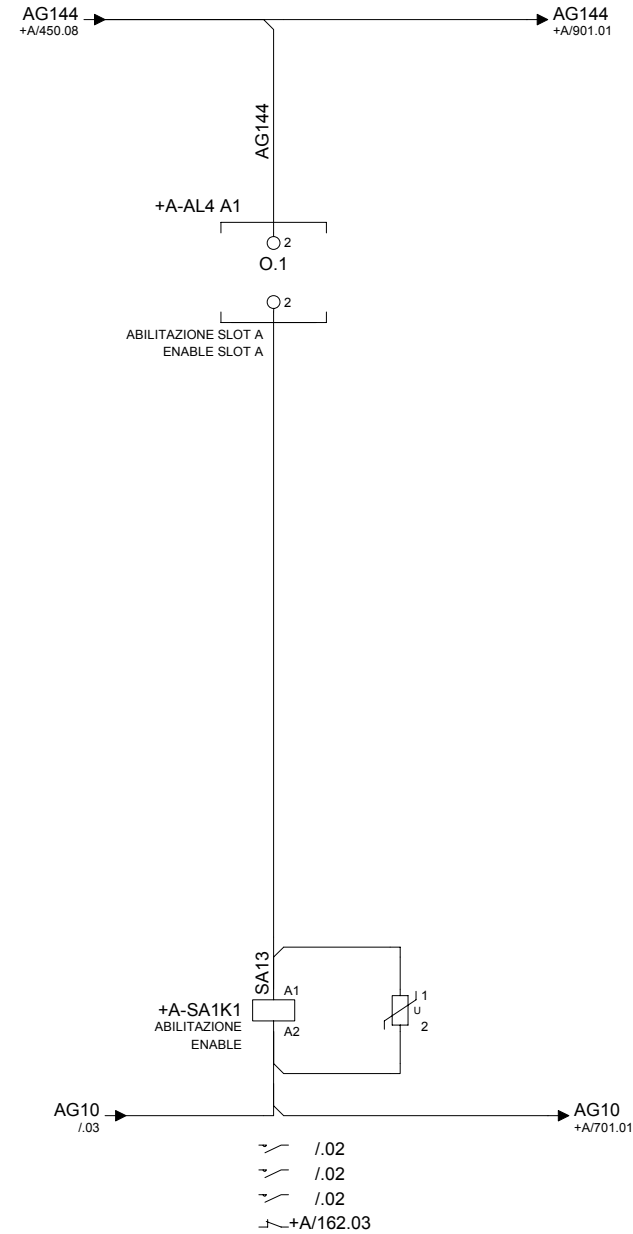
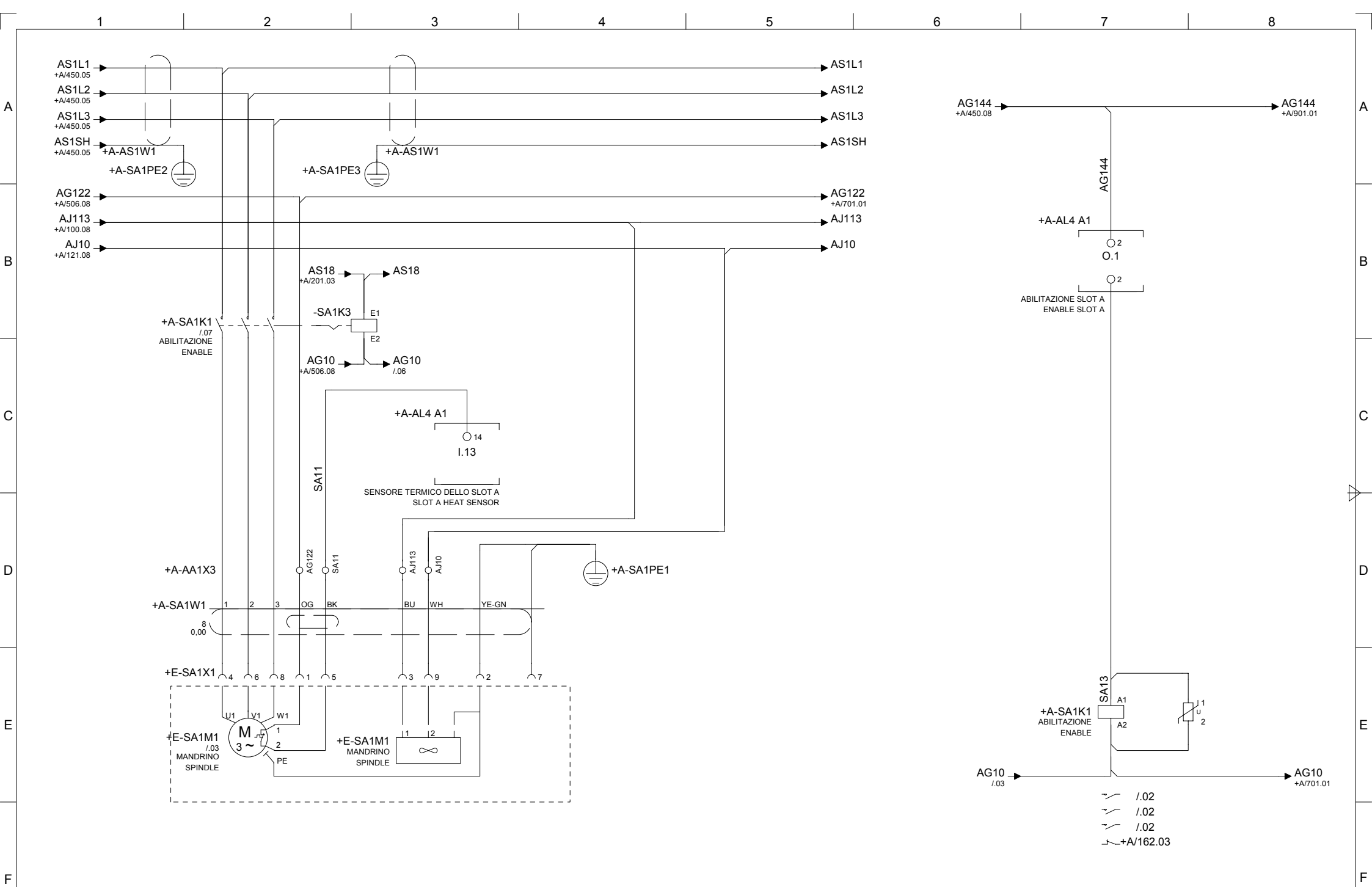
CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOGLIO
SHEET DESCRIPTION
MAGAZZINO UTENSILE TIPO RASTRELLIERA
RACK TYPE TOOL MAGAZINE

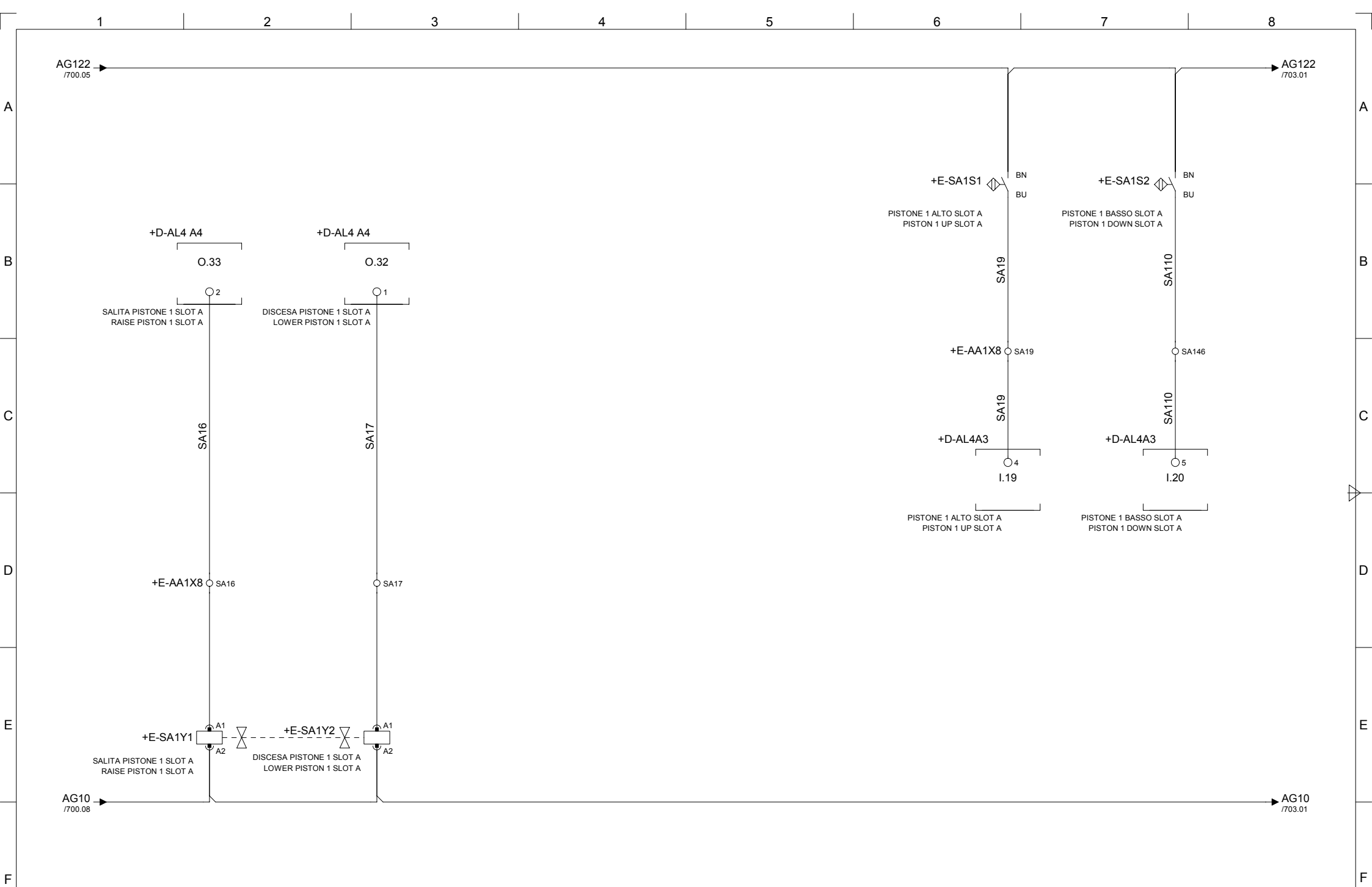
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929
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ROVER 20 (03)

= A	Gr.Fun. CJ1
+ A	Foglio 506
	700 F.S.

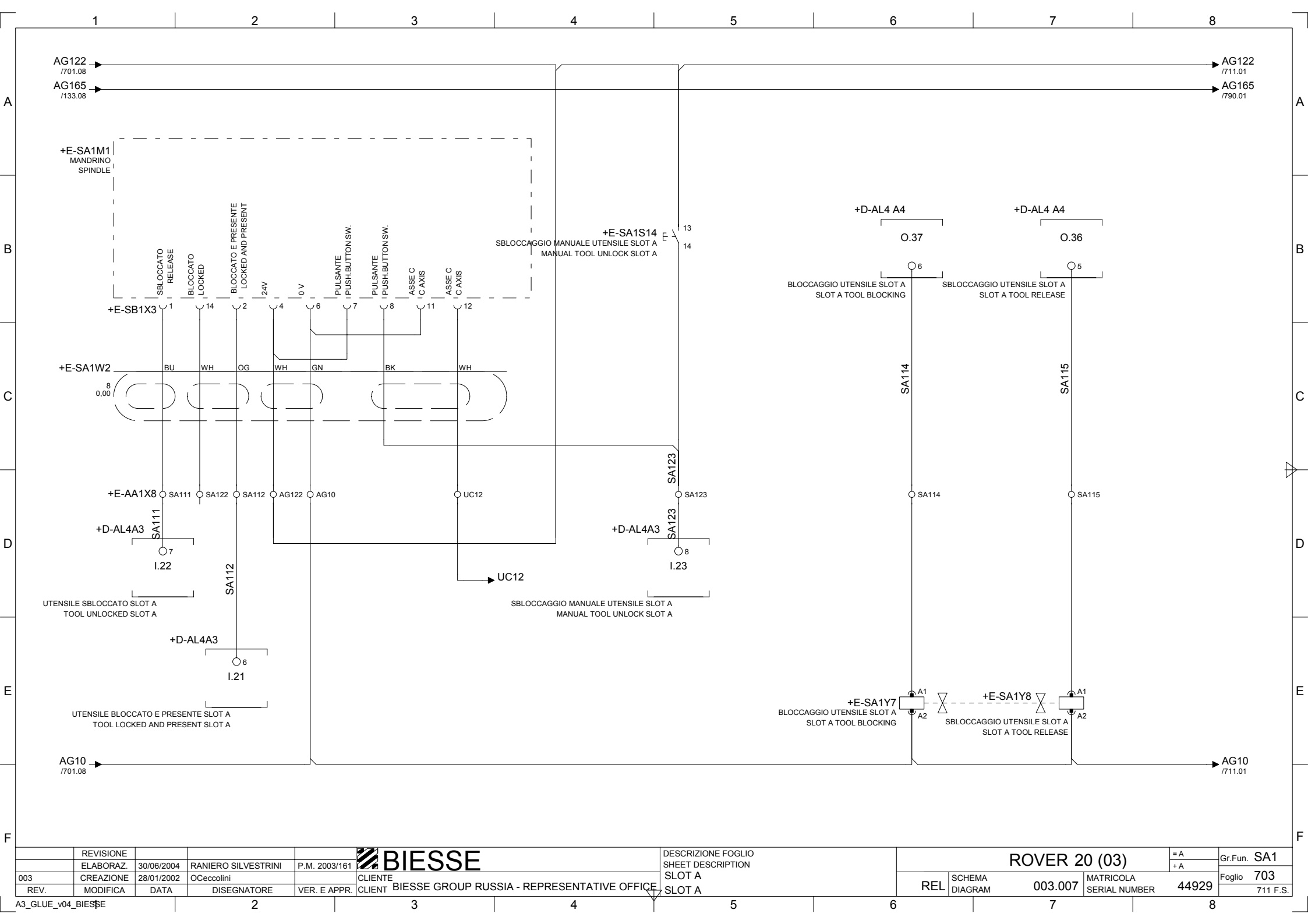


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REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		DESCRIZIONE FOLGIO SHEET DESCRIPTION SLOT A	ROVER 20 (03)		= A					Gr.Fun. SA1																																	
002	CREAZIONE	03/07/2002	OCeccolini					CLIENTE			REL	SCHEMA DIAGRAM			003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 700																												
REV.	MODIFICA	DATA	DISEGNATORE			VER. E APPR.	CLIENT					701 F.S.																																		
A3_GLUE_v04_BIESSE										2																																				



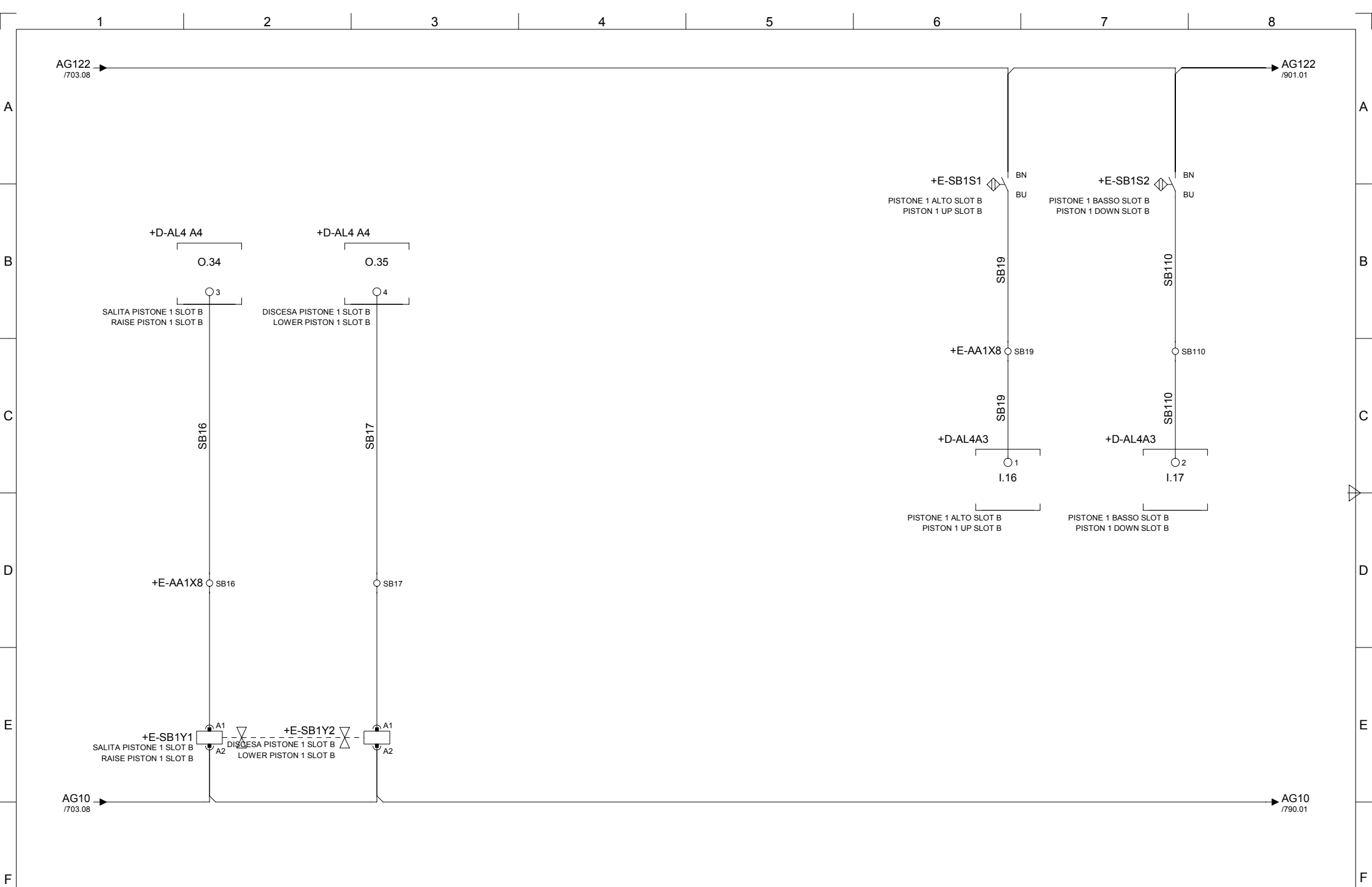
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION SLOT A SLOT A
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		
007	CREAZIONE	28/01/2002	OCeccolini	CLIENTE		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		

ROVER 20 (03)				= A + A	Gr.Fun. SA1



	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION SLOT A SLOT A
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		
003	CREAZIONE	28/01/2002	OCeccolini	CLIENTE		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.		

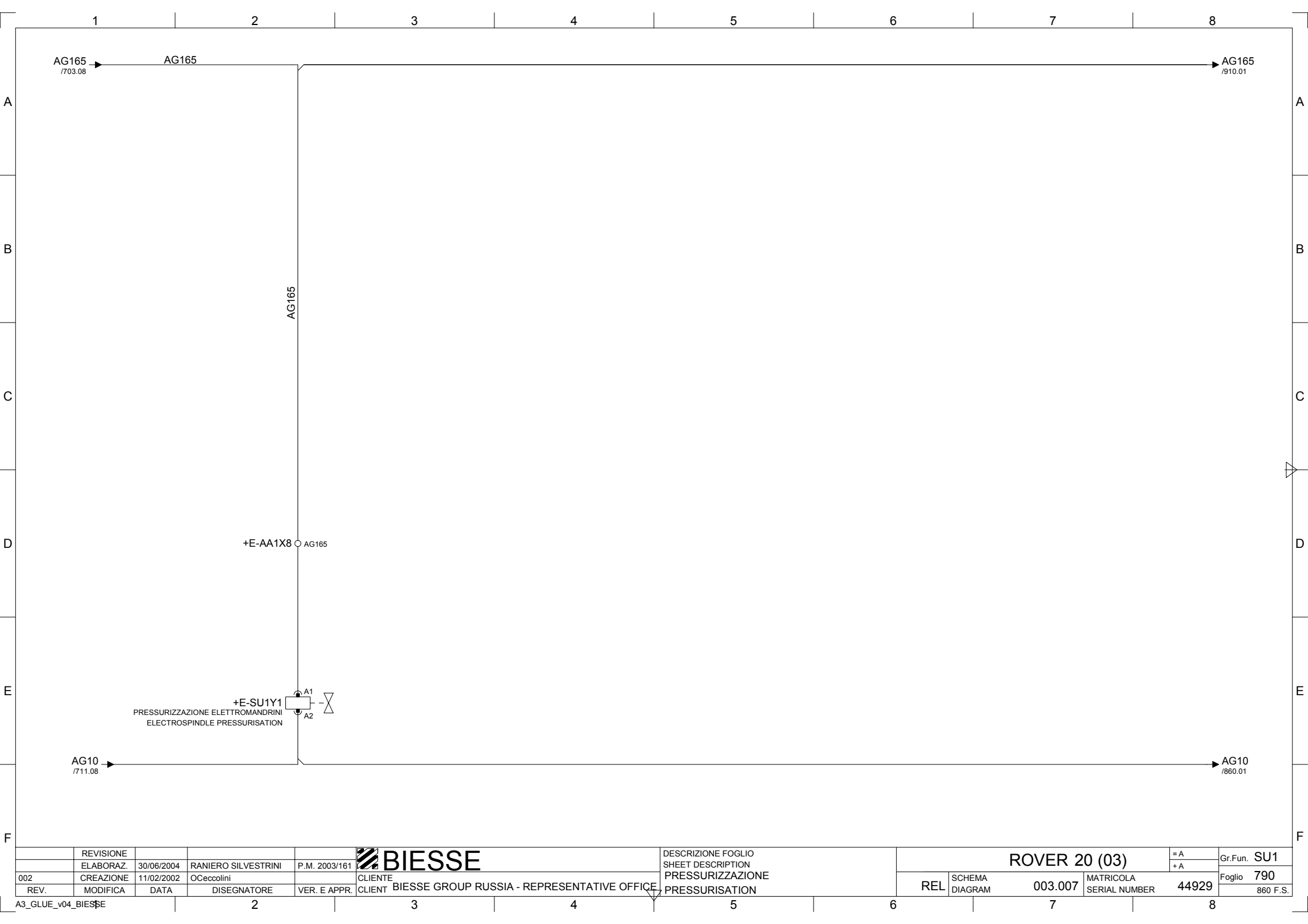
ROVER 20 (03)				= A	Gr.Fun. SA1
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 703
					711 F.S.



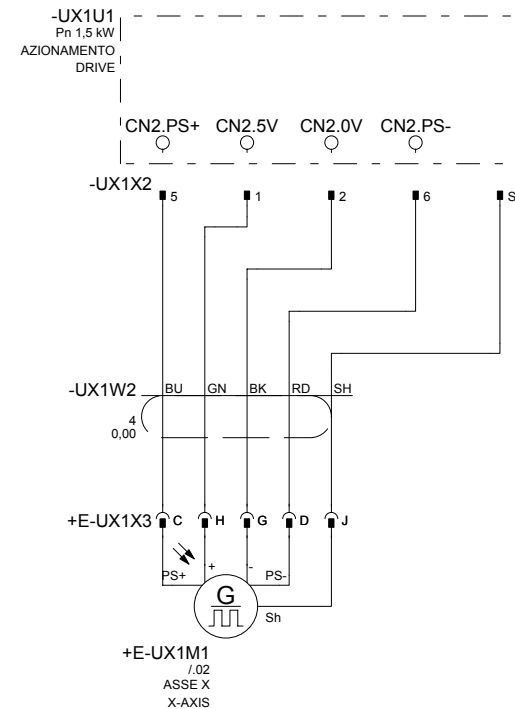
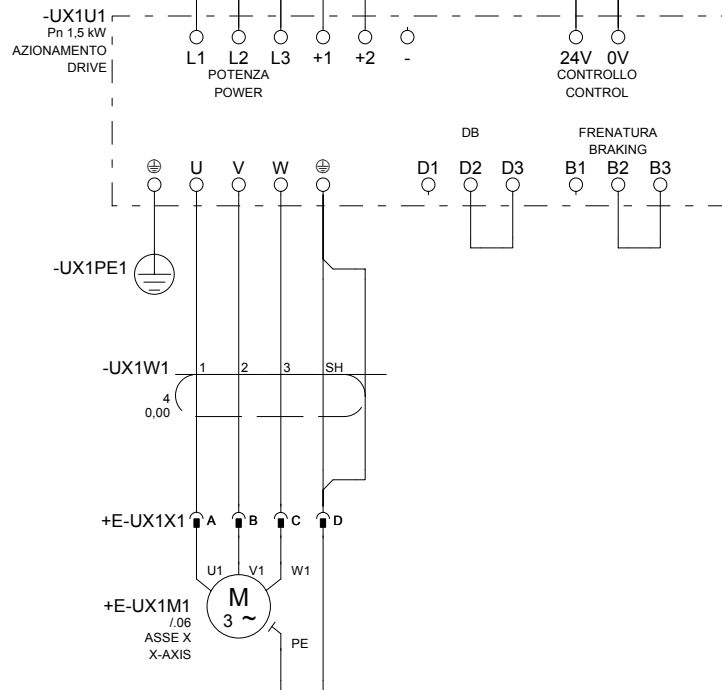
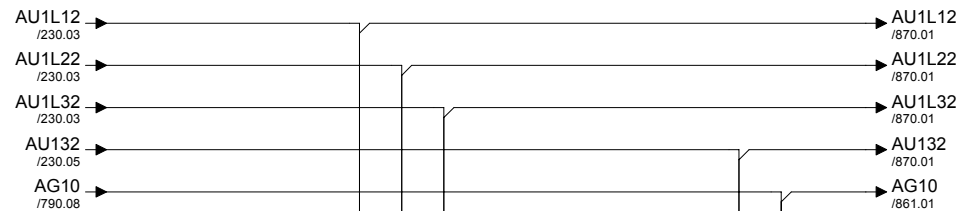
	REVISIONE					DESCRIZIONE FOGLIO SHEET DESCRIPTION SLOT B SLOT B	ROVER 20 (03)	= A + A	Gr.Fun. SB1
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161					
007	CREAZIONE	23/02/2004	OCeccolini	CLIENTE					
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 711
					790 F.S.



						DESCRIZIONE FOGLIO			ROVER 20 (03)		= A	Gr.Fun. SU1	
						SHEET DESCRIPTION			PRESSURIZZAZIONE		+ A	Foglio 790	
002	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	CLIENTE			REL	SCHEMA	003.007	MATRICOLA	44929	860 F.S.
	CREAZIONE	11/02/2002	OCeccolini		CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE			DIAGRAM			SERIAL NUMBER		
	REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	PRESSURISATION							

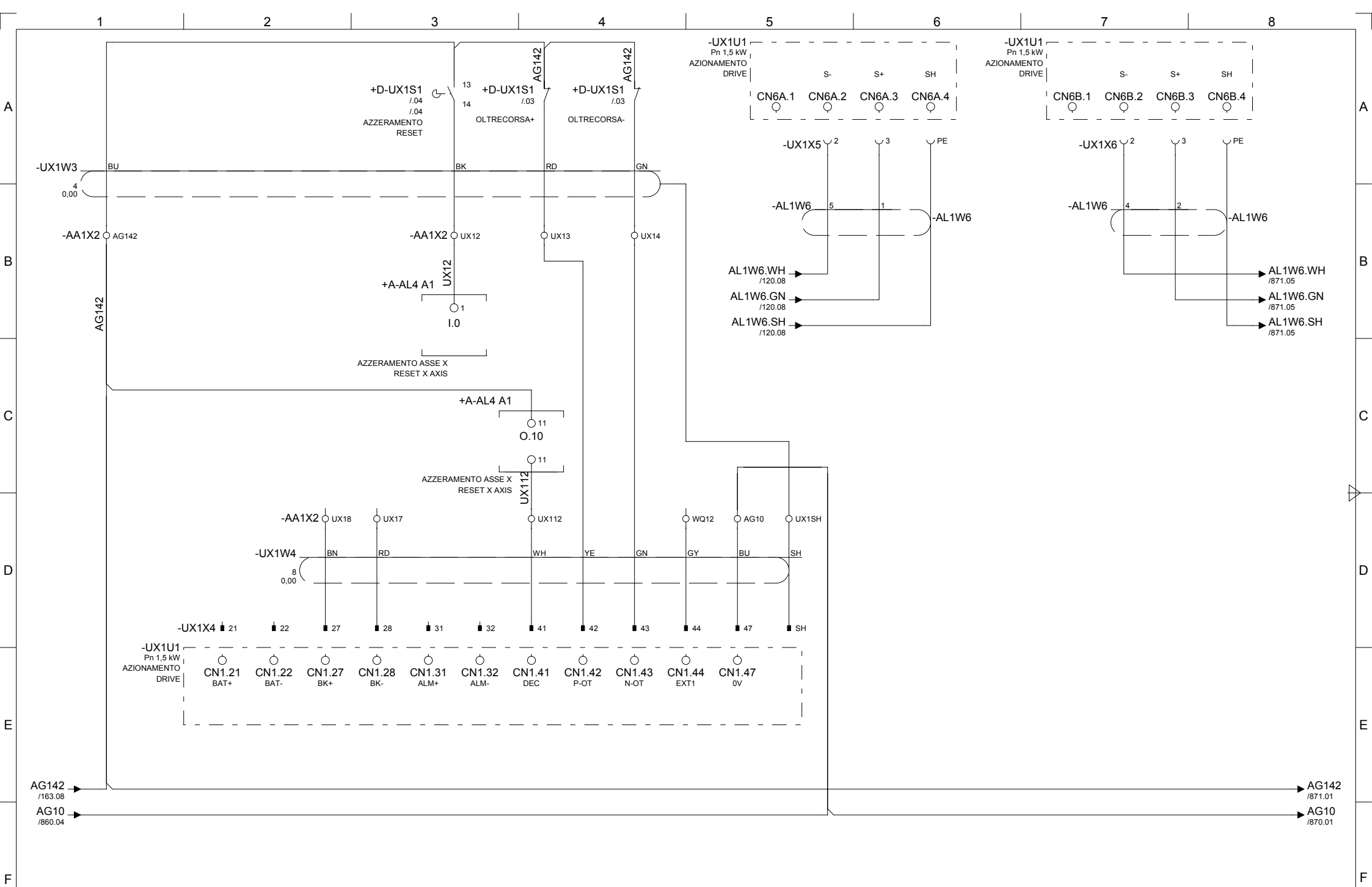


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
002	CREAZIONE	03/06/2003	Morri	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 X-AXIS

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 ASSE X
 X-AXIS

ROVER 20 (03)				= A	Gr.Fun. UX1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 860 861 F.S.



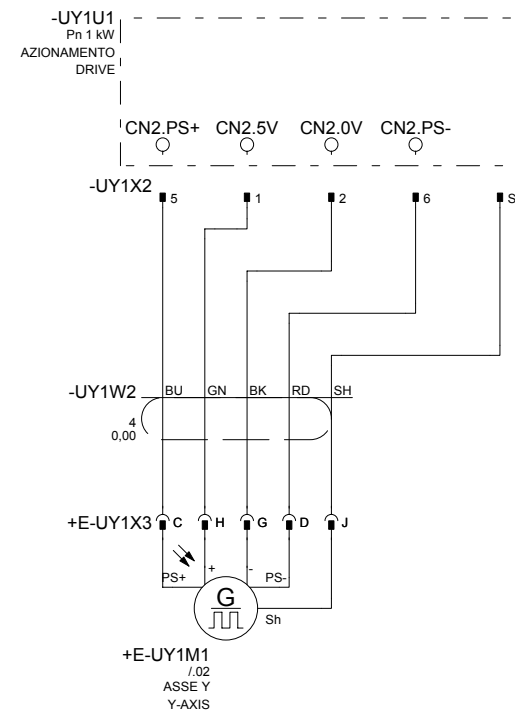
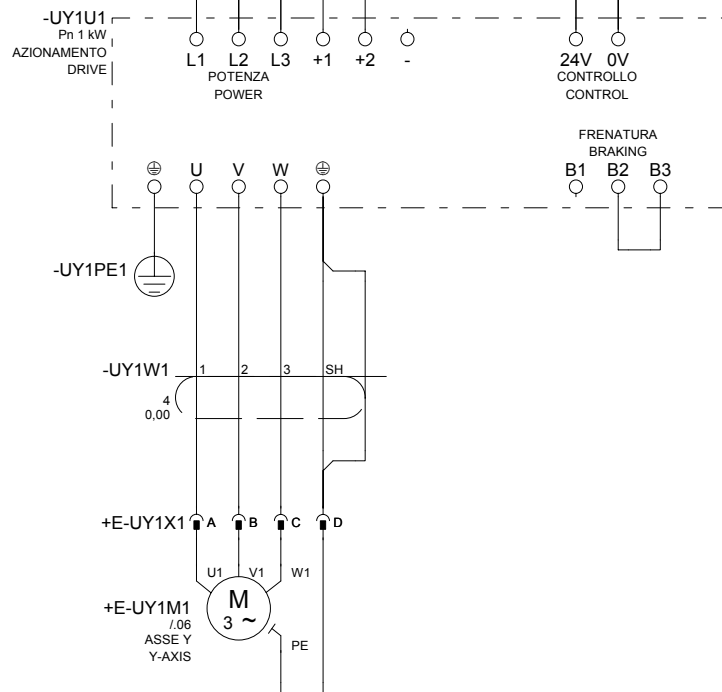
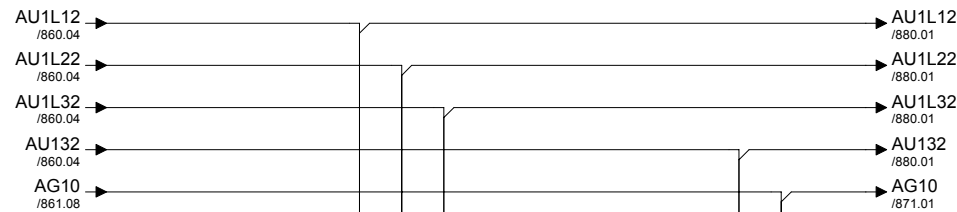
REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
004	CREAZIONE	01/08/2003	OCeccolini	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE

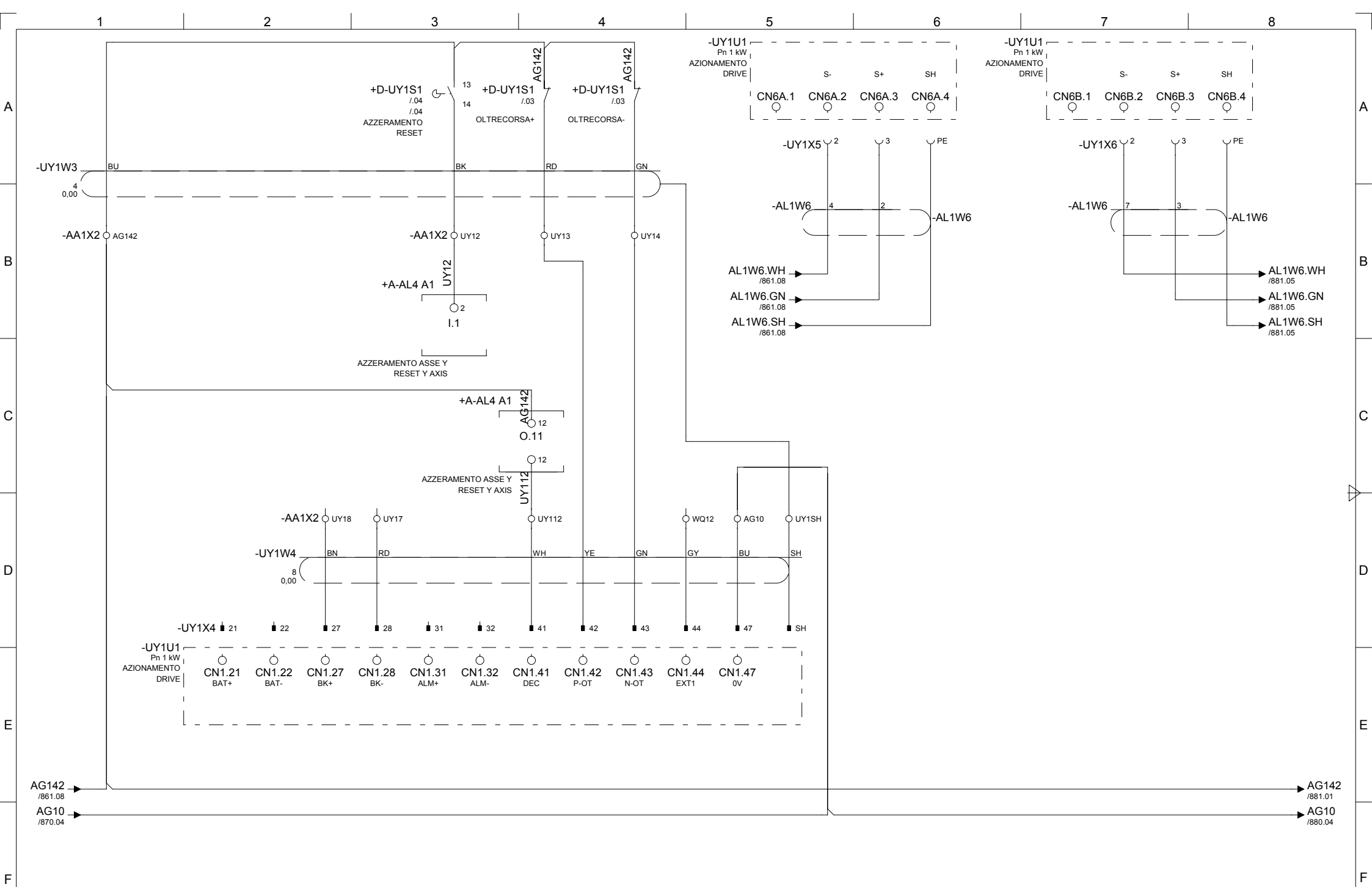
CLIENTE
CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
SHEET DESCRIPTION
ASSE X
X-AXIS

ROVER 20 (03)				= A	Gr.Fun. UX1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 861 870 F.S.



					DESCRIZIONE FOLGIO SHEET DESCRIPTION ASSE Y Y-AXIS			ROVER 20 (03)		= A + A		Gr.Fun. UY1
002	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 870
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						871 F.S.

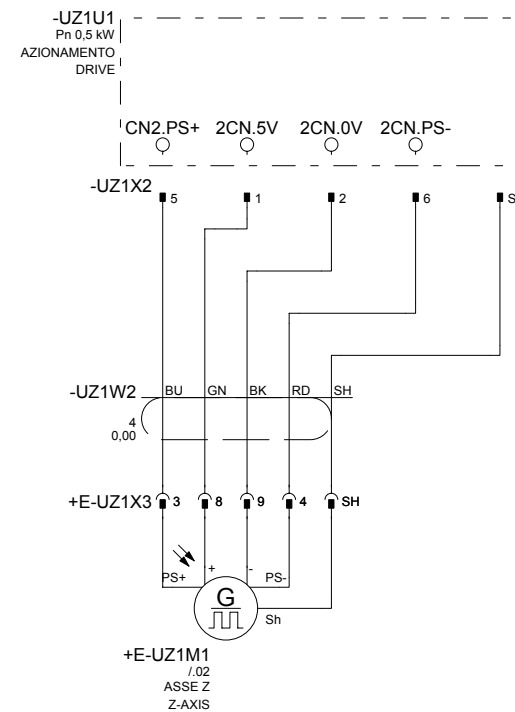
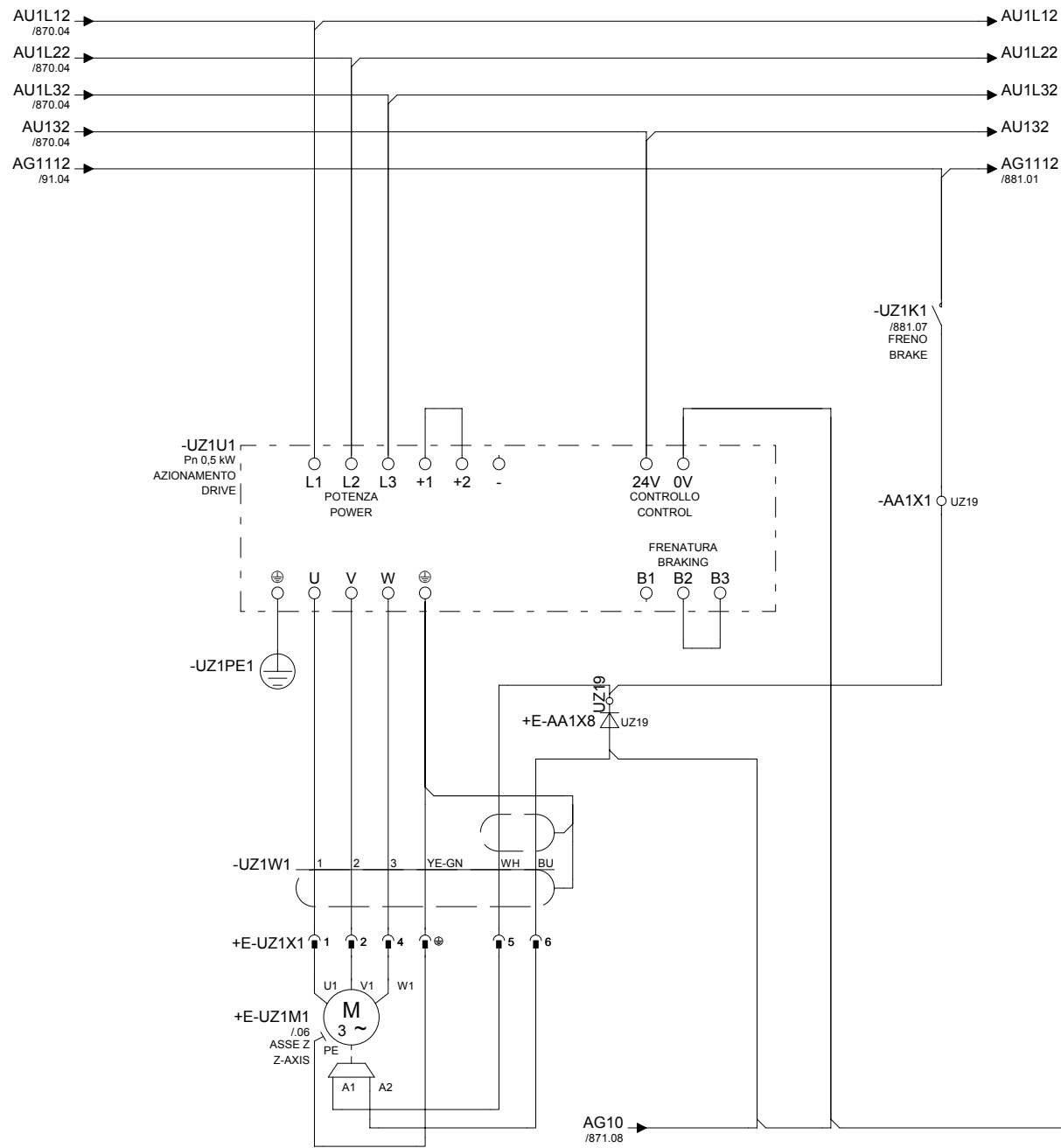


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
004	CREAZIONE	01/08/2003	OCeccolini	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

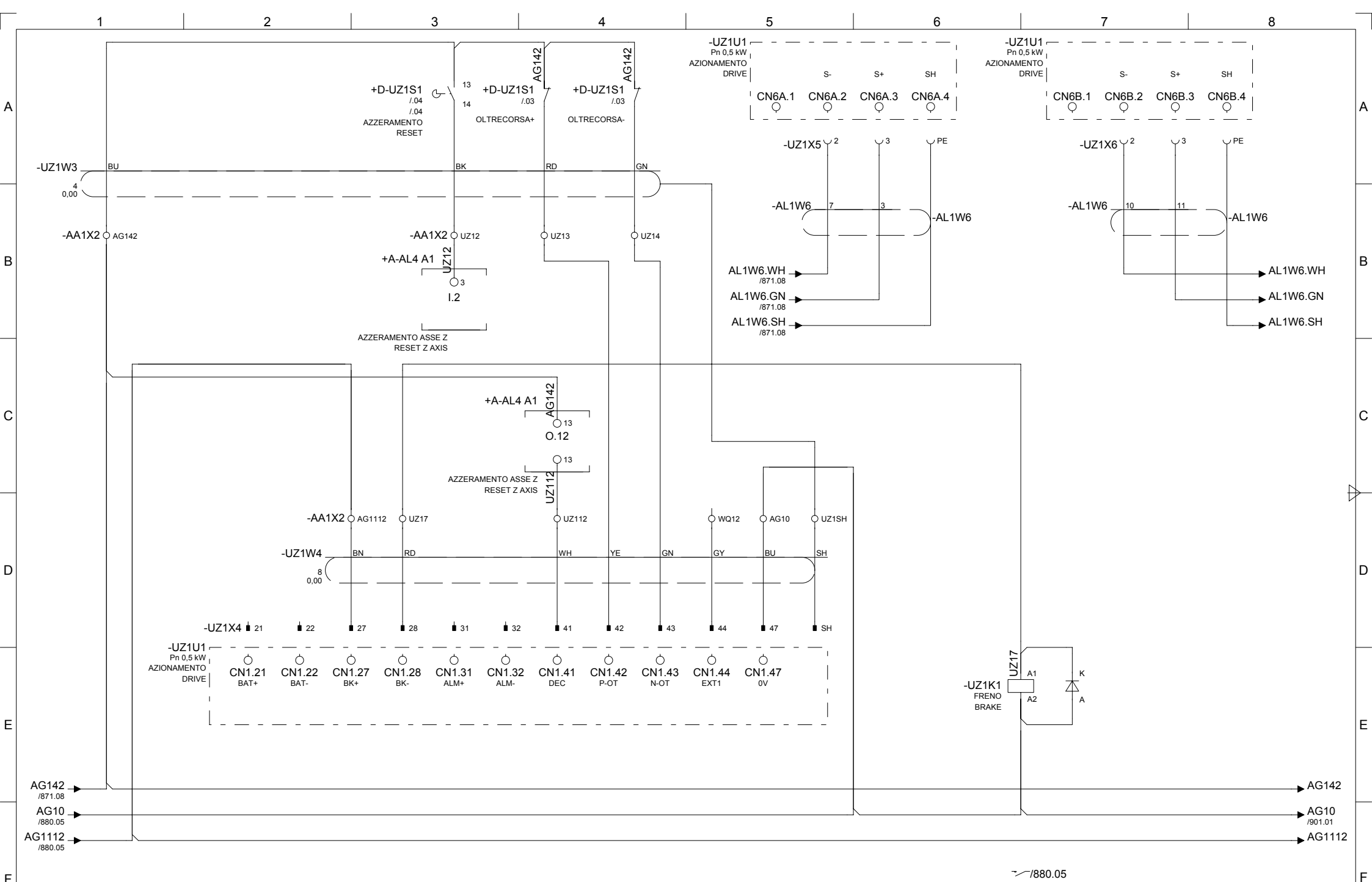
BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 Y-AXIS

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 ASSE Y

ROVER 20 (03)				= A	Gr.Fun. UY1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 871
				880 F.S.	



BIESSE CLIENTE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE Z-AXIS					DESCRIZIONE FOGLIO SHEET DESCRIPTION ASSE Z Z-AXIS			ROVER 20 (03) REL SCHEMA DIAGRAM 003.007		MATRICOLA SERIAL NUMBER 44929		= A + A	Gr.Fun. UZ1 Foglio 880 881 F.S.
001	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161									
	ELABORAZ.	03/06/2003	Morri										
	CREAZIONE												
	MODIFICA												
	DATA												
	DISEGNATORE												
	VER. E APPR.												

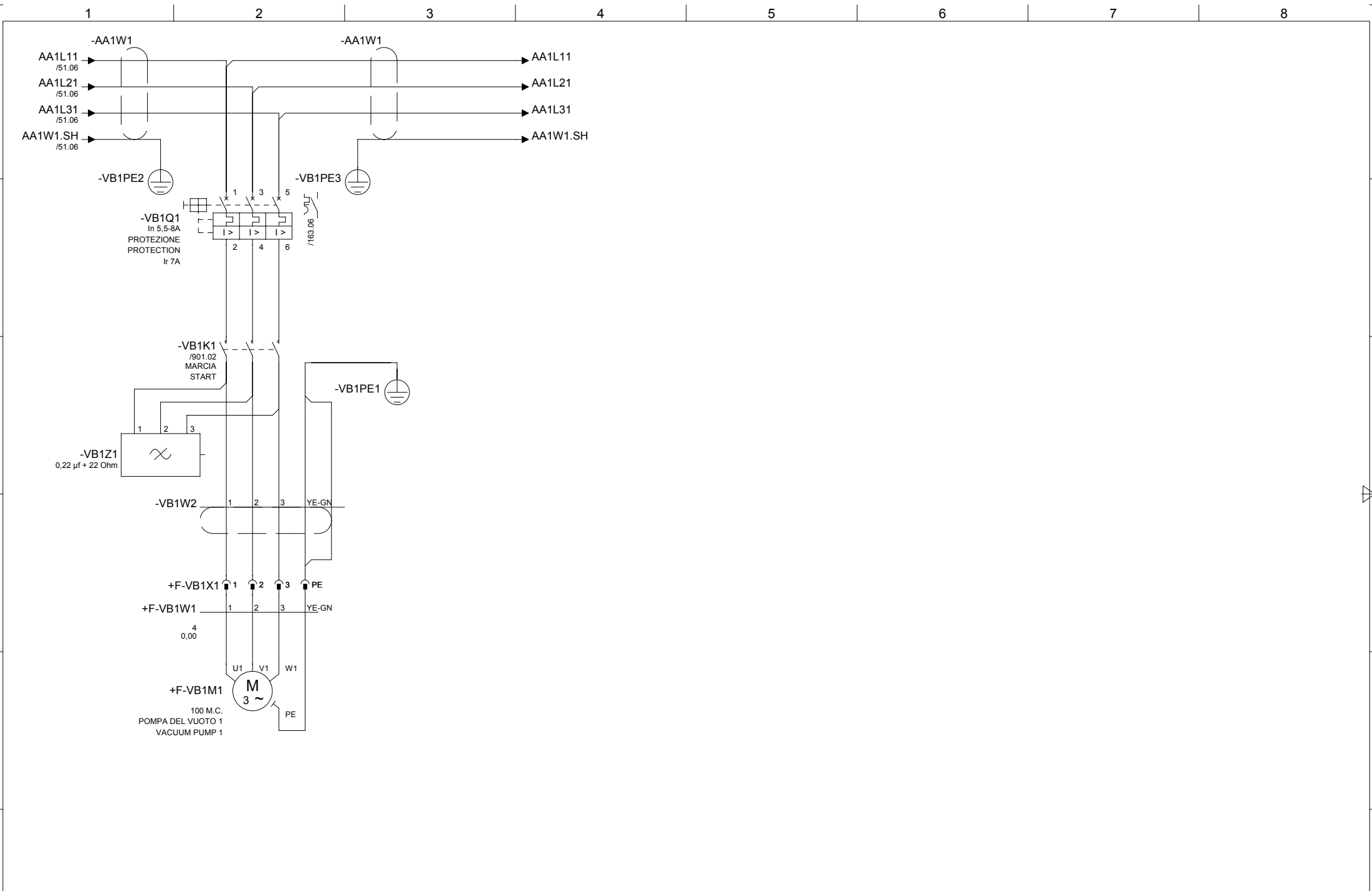


REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
003	CREAZIONE	01/08/2003	OCeccolini	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
 Z-AXIS

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 ASSE Z

ROVER 20 (03)				= A	Gr.Fun. UZ1
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 881
				+ A	900 F.S.



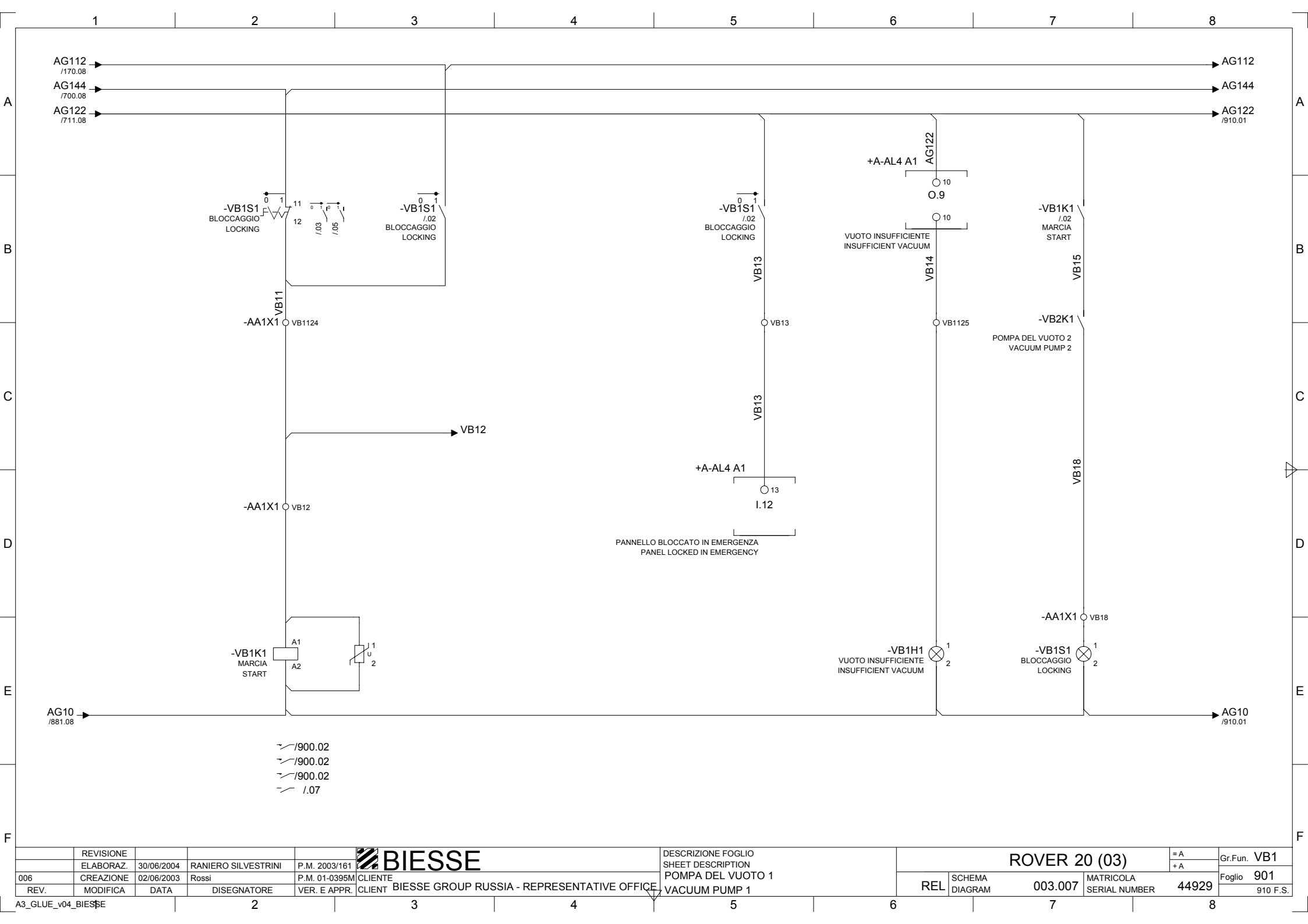
REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161
004	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.

BIESSE

CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

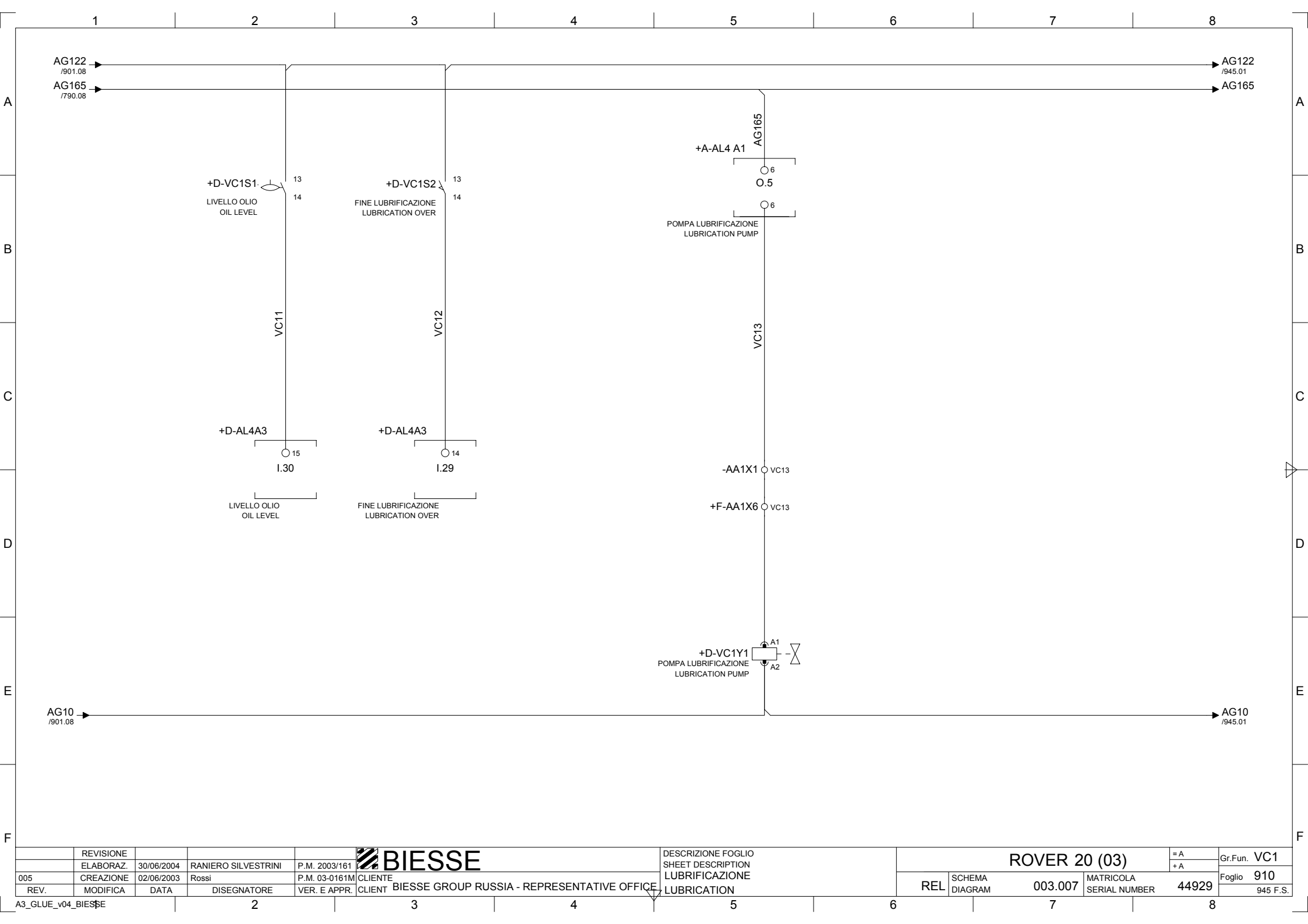
DESCRIZIONE FOGLIO
SHEET DESCRIPTION
POMPA DEL VUOTO 1
VACUUM PUMP 1

ROVER 20 (03)				= A	Gr.Fun. VB1
				+ A	
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 900 901 F.S.



REVISIONE	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161		DESCRIZIONE FOLGIO SHEET DESCRIPTION POMPA DEL VUOTO 1 VACUUM PUMP 1
006	CREAZIONE	02/06/2003	Rossi	P.M. 01-0395M		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENTE	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

ROVER 20 (03)				= A	Gr.Fun. VB1
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 901
				+ A	910 F.S.

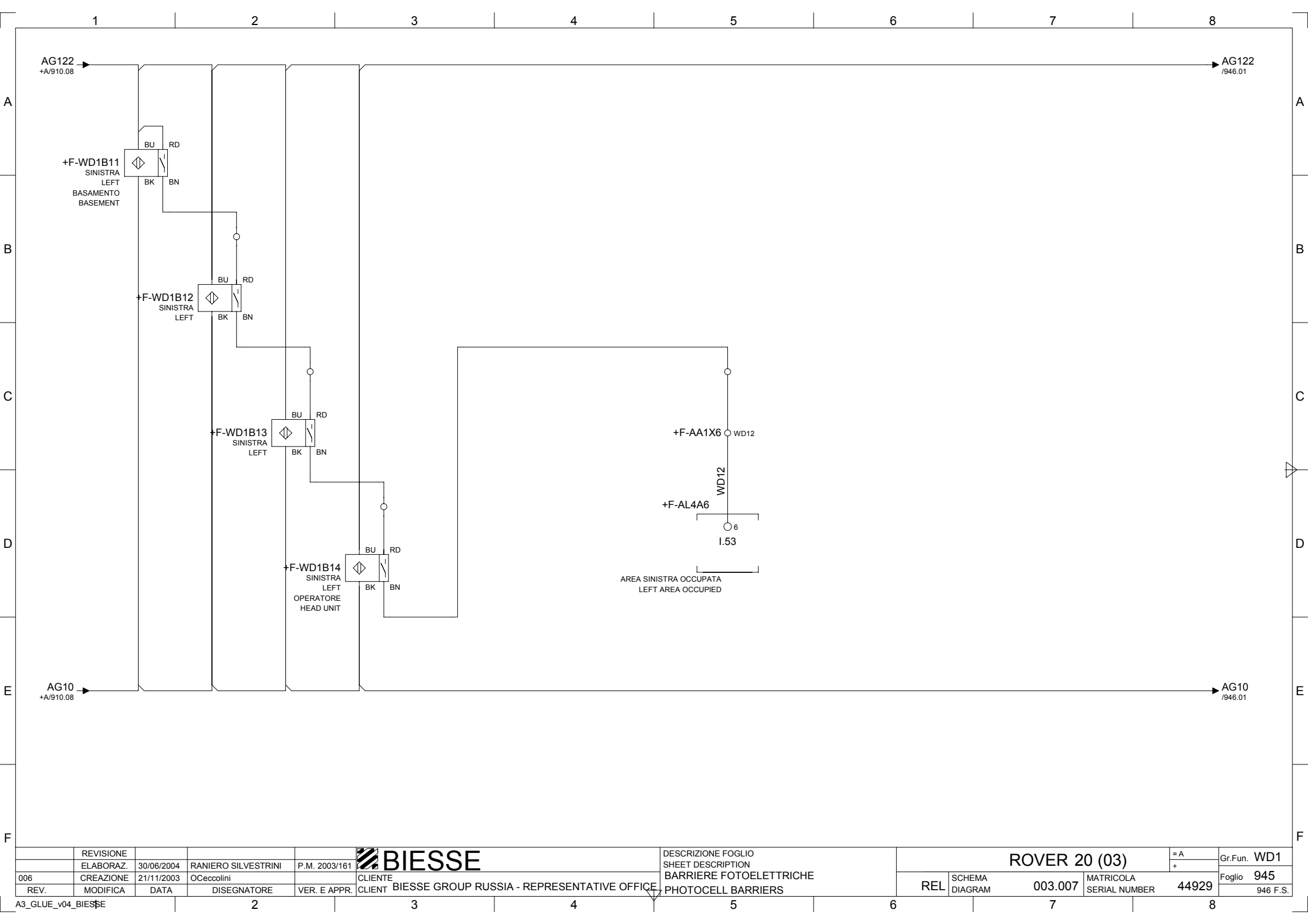


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
005	CREAZIONE	02/06/2003	Rossi	P.M. 03-0161M	CLIENTE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT

BIESSE
 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE

DESCRIZIONE FOLGIO
 SHEET DESCRIPTION
 LUBRIFICAZIONE
 LUBRICATION

ROVER 20 (03)				= A	Gr.Fun. VC1
				+ A	Foglio 910
REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	945 F.S.

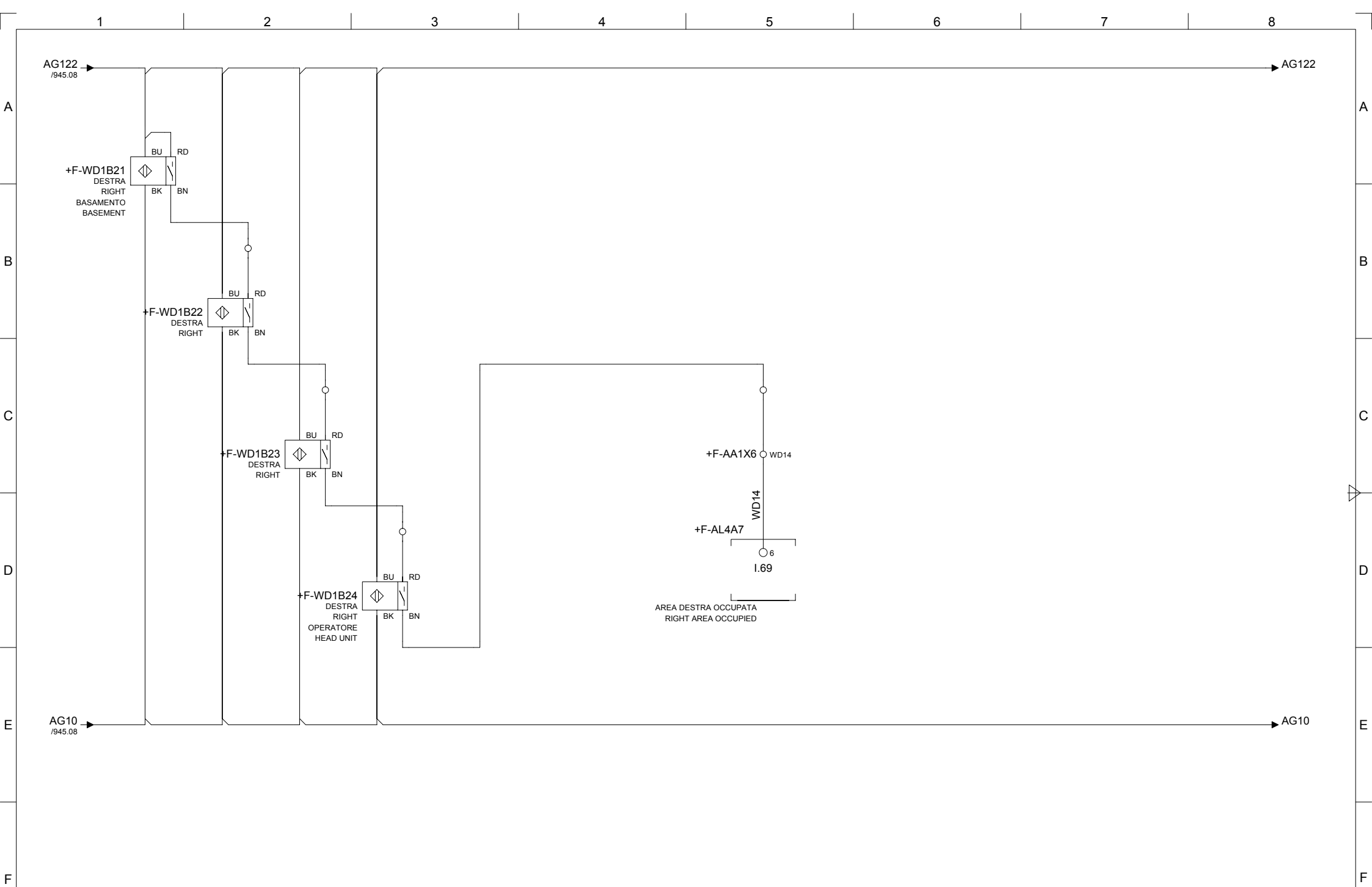


	REVISIONE				
	ELABORAZ.	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	
006	CREAZIONE	21/11/2003	OCeccolini	CLIENTE	
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	

CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE


DESCRIZIONE FOGLIO
SHEET DESCRIPTION
BARRIERE FOTOELETTRICHE
PHOTOCELL BARRIERS

ROVER 20 (03)				= A	Gr.Fun. WD1
				REL	SCHEMA DIAGRAM



BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE					DESCRIZIONE FOGLIO SHEET DESCRIPTION BARRIERE FOTOELETTRICHE PHOTOCELL BARRIERS			ROVER 20 (03) = A Gr.Fun. WD1		
007	REVISIONE	30/06/2004	RANIERO SILVESTRINI	P.M. 2003/161	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 946
	ELABORAZ.	13/03/2002	OCeccolini	VER. E APPR.						10000 F.S.

1		2		3		4		5		6		7		8	
SCHEMA CARD		+A-AL4 A1		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 0-A		Codice Code		P260		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION	MNEMONICO MNEMONIC							
Digital input	I.0	=A+A/861.03	1	UX12		ASSE X X-AXIS	AZZERAMENTO ASSE X RESET X AXIS								
Digital input	I.1	=A+A/871.03	2	UY12		ASSE Y Y-AXIS	AZZERAMENTO ASSE Y RESET Y AXIS								
Digital input	I.2	=A+A/881.03	3	UZ12		ASSE Z Z-AXIS	AZZERAMENTO ASSE Z RESET Z AXIS								
Digital input	I.3	=A+A/160.03	4	AG113		CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT	ABILITAZIONE CIRCUITI AUSILIARI ENABLE AUXILIARY CIRCUITS								
Digital input	I.4	=A+A/125.03	5	AL141		CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°19 TAST. CN (JOG FAST) NC KEYB. BUTTON N°19 (JOG FAST)								
Digital input	I.5	=A+A/125.02	6	AL139		CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°20 TAST. CN (STOP) NC KEYB. BUTTON N°20 (STOP)								
Digital input	I.6	=A+A/125.02	7	AL138		CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°21 TAST. CN (RESET) NC KEYB. BUTTON N°21 (RESET)								
Digital input	I.7	=A+A/201.02	8	AS18		ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY	MOTORE FERMO INVERTER 1 INVERTER 1 MOTOR OFF								
Digital input	I.9	=A+A/170.07	10	AR13		ATTREZZAGGIO TOOLING	ATTREZZAGGIO MACCHINA MACHINE TOOLING								
Digital input	I.12	=A+A/901.05	13	VB13		POMPA DEL VUOTO 1 VACUUM PUMP 1	PANNELLO BLOCCATO IN EMERGENZA PANEL LOCKED IN EMERGENCY								
Digital input	I.13	=A/700.03	14	SA11		SLOT A SLOT A	SENSORE TERMICO DELLO SLOT A SLOT A HEAT SENSOR								
Digital output	O.0	=A+A/161.03	1 1	AG113 AP12		CIRCUITO DI EMERGENZA EMERGENCY CIRCUIT	POTENZA MACCHINA MACHINE POWER								
Digital output	O.1	=A/700.07	2 2	AG144 SA13		SLOT A SLOT A	ABILITAZIONE SLOT A ENABLE SLOT A								
Digital output	O.4	=A+A/450.07	5 5	AG144 CA13		GRUPPO DI FORATURA BORING UNIT	ABILITAZIONE MANDRINI SPINDLES ENABLING								
Digital output	O.5	=A+A/910.05	6 6	AG165 VC13		LUBRIFICAZIONE LUBRICATION	POMPA LUBRIFICAZIONE LUBRICATION PUMP								
Digital output	O.6	=A+A/201.03	7 7	AS14 AS16		ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY	INVERTER 1 INVERTER 1								
Digital output	O.9	=A+A/901.06	10 10	AG122 VB14		POMPA DEL VUOTO 1 VACUUM PUMP 1	VUOTO INSUFFICIENTE INSUFFICIENT VACUUM								
Digital output	O.10	=A+A/861.04	11 11	AG142 UX112		ASSE X X-AXIS	AZZERAMENTO ASSE X RESET X AXIS								
Digital output	O.11	=A+A/871.04	12 12	AG142 UY112		ASSE Y Y-AXIS	AZZERAMENTO ASSE Y RESET Y AXIS								
Digital output	O.12	=A+A/881.04	13 13	AG142 UZ112		ASSE Z Z-AXIS	AZZERAMENTO ASSE Z RESET Z AXIS								

REVISIONE	ELABORAZ.	08/07/2004	rsilvestrini	 BIESSE		DESCRIZIONE FOLGIO SHEET DESCRIPTION Lista I/O: +A-AL4 A1	ROVER 20 (03)		=	Gr.Fun.	
CREAZIONE	18/01/2000	Cicchetti	CLIENTE								CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.							10001 F.S.


1	2		3		4		5		6		7		8	
SCHEMA CARD	+A-AL4 A2		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 0-B		Codice Code		P270		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION		MNEMONICO MNEMONIC					
Digital input	I.96	=A+A/124.02	1		AL111	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°1 TAST. CN NC KEYB. BUTTON N°1							
Digital input	I.97	=A+A/124.02	2		AL113	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°2 TAST. CN NC KEYB. BUTTON N°2							
Digital input	I.98	=A+A/124.03	3		AL115	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°3 TAST. CN NC KEYB. BUTTON N°3							
Digital input	I.99	=A+A/124.03	4		AL117	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°4 TAST. CN NC KEYB. BUTTON N°4							
Digital input	I.100	=A+A/124.04	5		AL119	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°5 TAST. CN NC KEYB. BUTTON N°5							
Digital input	I.101	=A+A/124.04	6		AL121	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°6 TAST. CN NC KEYB. BUTTON N°6							
Digital input	I.102	=A+A/124.05	7		AL123	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°7 TAST. CN NC KEYB. BUTTON N°7							
Digital input	I.103	=A+A/124.05	8		AL125	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°8 TAST. CN NC KEYB. BUTTON N°8							
Digital input	I.104	=A+A/124.06	9		AL127	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°9 TAST. CN NC KEYB. BUTTON N°9							
Digital input	I.105	=A+A/124.06	10		AL129	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°10 TAST. CN NC KEYB. BUTTON N°10							
Digital input	I.106	=A+A/124.07	11		AL131	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°11 TAST. CN NC KEYB. BUTTON N°11							
Digital input	I.107	=A+A/124.07	12		AL133	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°12 TAST. CN NC KEYB. BUTTON N°12							
Digital input	I.108	=A+A/125.03	13		AL140	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°15 TAST. CN (START) NC KEYB. BUTTON N°15 (START)							
Digital input	I.109	=A+A/125.04	14		AL142	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°16 TAST. CN (TASTO +) NC KEYB. BUTTON N°16 (+ KEY)							
Digital input	I.110	=A+A/125.05	15		AL144	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°17 TAST. CN (TASTO -) NC KEYB. BUTTON N°17 (- KEY)							
Digital input	I.111	=A+A/125.04	16		AL143	CONTROLLO NUMERICO NUMERICAL CONTROL	PULSANTE N°18 TAST. CN (CLEAR) NC KEYB. BUTTON N°18 (CLEAR)							
Digital output	O.96	=A+A/124.02	1		AL110	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 1 TAST. CN NC K/BOARD BUTTON 1 LED SWITCH ON							
Digital output	O.97	=A+A/124.02	2		AL112	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 2 TAST. CN NC K/BOARD BUTTON 2 LED SWITCH ON							
Digital output	O.98	=A+A/124.03	3		AL114	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 3 TAST. CN NC K/BOARD BUTTON 3 LED SWITCH ON							
Digital output	O.99	=A+A/124.03	4		AL116	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 4 TAST. CN NC K/BOARD BUTTON 4 LED SWITCH ON							

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini				DESCRIZIONE FOLGIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.			
CREAZIONE		08/07/2004		rsilvestrini				Lista I/O: +A-AL4 A2								Foglio 10001	
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		REL SCHEMA DIAGRAM		003.007		MATRICOLA SERIAL NUMBER 44929		10002 F.S.	

SCHEDA CARD +A-AL4 A2	Modulo Module	REGOLAZIONE ADJUSTMENT CH 0-B	Codice Code P270	Lista I-O_v03
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A	TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION	MNEMONICO MNEMONIC	B
	Digital output	O.100	=A+A/124.04	5			AL118	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 5 TAST. CN NC K/BOARD BUTTON 5 LED SWITCH ON	
	Digital output	O.101	=A+A/124.04	6			AL120	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 6 TAST. CN NC K/BOARD BUTTON 6 LED SWITCH ON	
	Digital output	O.102	=A+A/124.05	7			AL122	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 7 TAST. CN NC K/BOARD BUTTON 7 LED SWITCH ON	
B	Digital output	O.103	=A+A/124.05	8			AL124	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 8 TAST. CN NC K/BOARD BUTTON 8 LED SWITCH ON	B
	Digital output	O.104	=A+A/124.06	9			AL126	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 9 TAST. CN NC K/BOARD BUTTON 9 LED SWITCH ON	
	Digital output	O.105	=A+A/124.06	10			AL128	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 10 TAST. CN NC K/BOARD BUTTON 10 LED SWITCH ON	
	Digital output	O.106	=A+A/124.07	11			AL130	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 11 TAST. CN NC K/BOARD BUTTON 11 LED SWITCH ON	
C	Digital output	O.107	=A+A/124.07	12			AL132	CONTROLLO NUMERICO NUMERICAL CONTROL	ACC. LED PULSANTE 12 TAST. CN NC K/BOARD BUTTON 12 LED SWITCH ON	C
D										D
E										E
F										F

1	2		3		4		5		6		7		8	
SCHEMA CARD	+D-AL4A3		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 1-0		Codice Code		P270		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION	MNEMONICO MNEMONIC						
Digital input	I.16	=A+A/711.06	1		SB19	SLOT B SLOT B	PISTONE 1 ALTO SLOT B PISTON 1 UP SLOT B							
Digital input	I.17	=A+A/711.07	2		SB110	SLOT B SLOT B	PISTONE 1 BASSO SLOT B PISTON 1 DOWN SLOT B							
Digital input	I.19	=A+A/701.06	4		SA19	SLOT A SLOT A	PISTONE 1 ALTO SLOT A PISTON 1 UP SLOT A							
Digital input	I.20	=A+A/701.07	5		SA110	SLOT A SLOT A	PISTONE 1 BASSO SLOT A PISTON 1 DOWN SLOT A							
Digital input	I.21	=A+A/703.02	6		SA112	SLOT A SLOT A	UTENSILE BLOCCATO E PRESENTE SLOT A TOOL LOCKED AND PRESENT SLOT A							
Digital input	I.22	=A+A/703.01	7		SA111	SLOT A SLOT A	UTENSILE SBLOCCATO SLOT A TOOL UNLOCKED SLOT A							
Digital input	I.23	=A+A/703.05	8		SA123	SLOT A SLOT A	SBLOCCAGGIO MANUALE UTENSILE SLOT A MANUAL TOOL UNLOCK SLOT A							
Digital input	I.29	=A+A/910.03	14		VC12	LUBRIFICAZIONE LUBRICATION	FINE LUBRIFICAZIONE LUBRICATION OVER							
Digital input	I.30	=A+A/910.02	15		VC11	LUBRIFICAZIONE LUBRICATION	LIVELLO OLIO OIL LEVEL							
Digital output	O.16	=A+A/453.02	1		CA131	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 1 LOWER VERTICAL SPINDLE 1							
Digital output	O.17	=A+A/453.03	2		CA132	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 2 LOWER VERTICAL SPINDLE 2							
Digital output	O.18	=A+A/453.04	3		CA133	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 3 LOWER VERTICAL SPINDLE 3							
Digital output	O.19	=A+A/453.05	4		CA134	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 4 LOWER VERTICAL SPINDLE 4							
Digital output	O.20	=A+A/453.06	5		CA135	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 5 LOWER VERTICAL SPINDLE 5							
Digital output	O.21	=A+A/453.07	6		CA136	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 6 LOWER VERTICAL SPINDLE 6							
Digital output	O.22	=A+A/453.08	7		CA137	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 7 LOWER VERTICAL SPINDLE 7							
Digital output	O.23	=A+A/454.02	8		CA138	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 8 LOWER VERTICAL SPINDLE 8							
Digital output	O.24	=A+A/454.03	9		CA139	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 9 LOWER VERTICAL SPINDLE 9							
Digital output	O.25	=A+A/454.04	10		CA140	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO VERTICALE 10 LOWER VERTICAL SPINDLE 10							
Digital output	O.26	=A+A/460.02	11		CA181	GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO ORIZZONTALE 11-12 LOWER HORIZONTAL SPINDLE 11-12							

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini				DESCRIZIONE FOGLIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.					
CREAZIONE		08/07/2004		rsilvestrini				Lista I/O: +D-AL4A3				+		10003		Foglio			
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		REL SCHEMA DIAGRAM		003.007		MATRICOLA SERIAL NUMBER		44929		10004 F.S.	

	TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION	MNEMONICO MNEMONIC
A	Digital output	O.27	=A+A/460.04	12	CA183		GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO ORIZZONTALE 13-14 LOWER HORIZONTAL SPINDLE 13-14	
	Digital output	O.28	=A+A/460.06	13	CA185		GRUPPO DI FORATURA BORING UNIT	DISCESA MANDRINO ORIZZONTALE 15-16 LOWER HORIZONTAL SPINDLE 15-16	
B									
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	REVISIONE				<b style="font-size: 18px;">BIESSE	DESCRIZIONE FOGLIO SHEET DESCRIPTION Lista I/O: +D-AL4A3		ROVER 20 (03)		= A +	Gr.Fun.	
	ELABORAZ.	08/07/2004	rsilvestrini		CLIENTE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						Foglio 10004	
	CREAZIONE	08/07/2004	rsilvestrini			VER. E APPR.						10005 F.S.
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.				REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929


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SCHEDA CARD **+D-AL4 A4** Modulo Module REGOLAZIONE ADJUSTMENT CH 1-1 Codice Code **P270** Lista I-O_v03


TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION	MNEMONICO MNEMONIC
Digital output	O.32	=A+A/701.03	1		SA17	SLOT A SLOT A	DISCESA PISTONE 1 SLOT A LOWER PISTON 1 SLOT A	
Digital output	O.33	=A+A/701.02	2		SA16	SLOT A SLOT A	SALITA PISTONE 1 SLOT A RAISE PISTON 1 SLOT A	
Digital output	O.34	=A+A/711.02	3		SB16	SLOT B SLOT B	SALITA PISTONE 1 SLOT B RAISE PISTON 1 SLOT B	
Digital output	O.35	=A+A/711.03	4		SB17	SLOT B SLOT B	DISCESA PISTONE 1 SLOT B LOWER PISTON 1 SLOT B	
Digital output	O.36	=A+A/703.07	5		SA115	SLOT A SLOT A	SBLOCCAGGIO UTENSILE SLOT A SLOT A TOOL RELEASE	
Digital output	O.37	=A+A/703.06	6		SA114	SLOT A SLOT A	BLOCCAGGIO UTENSILE SLOT A SLOT A TOOL BLOCKING	

REVISIONE						BIESSE		DESCRIZIONE FOGLIO SHEET DESCRIPTION		ROVER 20 (03)		= A	Gr.Fun.	
ELABORAZ.	08/07/2004	rsilvestrini						Lista I/O: +D-AL4 A4				+		
CREAZIONE	08/07/2004	rsilvestrini				CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE						Foglio 10005		
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.					REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	10006 F.S.

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SCHEDA CARD	+F-AL4A6		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 1-D		Codice Code		P270		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION		MNEMONICO MNEMONIC					
Digital input	I.48	=A+A/304.02	1		BA110	BATTUTE AREA SX1 AREA SX1 STOPS	START ORIGINE 1/5 ORIGIN 1/5 START							
Digital input	I.49	=A+A/324.02	2		BA210	BATTUTE AREA SX2 AREA SX2 STOPS	START ORIGINE 2/6 ORIGIN 2/6 START							
Digital input	I.50	=A+A/380.06	3		BC15	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	PEDALE AREA SX1 AREA SX1 PEDAL							
Digital input	I.52	=A+A/381.06	5		BC19	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VUOTO AUSILIARIO SX1 VACUUM SX1 AUXILIARY SYSTEM							
Digital input	I.53	=A/945.05	6		WD12	BARRIERE FOTOELETTRICHE PHOTOCELL BARRIERS	AREA SINISTRA OCCUPATA LEFT AREA OCCUPIED							
Digital output	O.48	=A+A/304.03	1		BA111	BATTUTE AREA SX1 AREA SX1 STOPS	START ORIGINE 1/5 ORIGIN 1/5 START							
Digital output	O.49	=A+A/324.03	2		BA211	BATTUTE AREA SX2 AREA SX2 STOPS	START ORIGINE 2/6 ORIGIN 2/6 START							
Digital output	O.50	=A+A/303.02	3		BA14	BATTUTE AREA SX1 AREA SX1 STOPS	BATTUTE LATERALI AREA SX1 AREA SX1 SIDE STOPS							
Digital output	O.51	=A+A/323.02	4		BA24	BATTUTE AREA SX2 AREA SX2 STOPS	BATTUTE LATERALI AREA SX2 AREA SX2 SIDE STOPS							
Digital output	O.52	=A+A/380.02	5		BC11	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VUOTO ON SX1 VACUUM SX1 ON							
Digital output	O.53	=A+A/380.03	6		BC12	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VUOTO OFF SX1 VACUUM SX1 OFF							
Digital output	O.54	=A+A/300.02	7		BA11	BATTUTE AREA SX1 AREA SX1 STOPS	BATTUTE FRONTALI SX1 1ª FILA ROW SX1 FRONT STOPS							
Digital output	O.55	=A+A/301.02	8		BA12	BATTUTE AREA SX1 AREA SX1 STOPS	BATTUTE FRONTALI SX1 2ª FILA ROW SX1 FRONT STOPS							
Digital output	O.58	=A+A/396.02	11		BD11	ACCOSTATORI AREA SX1 SX1 AREA PUSHERS	ACCOSTATORI AREA SX1 SX1 AREA PUSHERS							
Digital output	O.59	=A+A/381.02	12		BC17	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VUOTO AUSILIARIO ON SX1 VACUUM SX1 AUXILIARY SYSTEM ON							
Digital output	O.60	=A+A/381.03	13		BC18	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VUOTO AUSILIARIO OFF SX1 VACUUM SX1 AUXILIARY SYSTEM OFF							

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini		 BIESSE		DESCRIZIONE FOLGIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.	
CREAZIONE		08/07/2004		rsilvestrini				Lista I/O: +F-AL4A6				+		10006	
REV.	MODIFICA	DATA	DISEGNAZIONE	VER. E APPR.	CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE				REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 10007 F.S.	

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SCHEDA CARD	+F-AL4A7		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 1-E		Codice Code		P270		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION		MNEMONICO MNEMONIC					
Digital input	I.64	=A+A/344.02	1		BB110	BATTUTE AREA DX1 AREA DX1 STOPS	START ORIGINE 4/8 ORIGIN 4/8 START							
Digital input	I.65	=A+A/364.02	2		BB210	BATTUTE AREA DX2 AREA DX2 STOPS	START ORIGINE 3/7 ORIGIN 3/7 START							
Digital input	I.66	=A+A/400.06	3		BF15	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	PEDALE AREA DX1 AREA DX1 PEDAL							
Digital input	I.68	=A+A/401.06	5		BF19	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VUOTO AUSILIARIO DX1 VACUUM DX1 AUXILIARY SYSTEM							
Digital input	I.69	=A/946.05	6		WD14	BARRIERE FOTOELETTRICHE PHOTOCELL BARRIERS	AREA DESTRA OCCUPATA RIGHT AREA OCCUPIED							
Digital input	I.70	=A+A/380.07	7		BC16	BLOCCAGGIO PEZZO AREA SX1 AREA SX1 PIECE LOCKING	VACUOSTATO AREA SX1 VACUOMETER AREA SX1							
Digital input	I.71	=A+A/400.07	8		BF16	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VACUOSTATO AREA DX1 VACUOMETER AREA DX1							
Digital output	O.64	=A+A/344.03	1		BB111	BATTUTE AREA DX1 AREA DX1 STOPS	START ORIGINE 4/8 ORIGIN 4/8 START							
Digital output	O.65	=A+A/364.03	2		BB211	BATTUTE AREA DX2 AREA DX2 STOPS	START ORIGINE 3/7 ORIGIN 3/7 START							
Digital output	O.66	=A+A/343.02	3		BB14	BATTUTE AREA DX1 AREA DX1 STOPS	BATTUTE LATERALI AREA DX1 AREA DX1 SIDE STOPS							
Digital output	O.67	=A+A/363.02	4		BB24	BATTUTE AREA DX2 AREA DX2 STOPS	BATTUTE LATERALI AREA DX2 AREA DX2 SIDE STOPS							
Digital output	O.68	=A+A/400.02	5		BF11	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VUOTO ON DX1 VACUUM DX1 ON							
Digital output	O.69	=A+A/400.03	6		BF12	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VUOTO OFF DX1 VACUUM DX1 OFF							
Digital output	O.70	=A+A/340.02	7		BB11	BATTUTE AREA DX1 AREA DX1 STOPS	BATTUTE FRONTALI DX1 1ª FILA ROW DX1 FRONT STOPS							
Digital output	O.71	=A+A/341.02	8		BB12	BATTUTE AREA DX1 AREA DX1 STOPS	BATTUTE FRONTALI DX1 2ª FILA ROW DX1 FRONT STOPS							
Digital output	O.74	=A+A/398.02	11		BE11	ACCOSTATORI AREA DX1 DX1 AREA PUSHERS	ACCOSTATORI AREA DX1 DX1 AREA PUSHERS							
Digital output	O.75	=A+A/401.02	12		BF17	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VUOTO AUSILIARIO ON DX1 VACUUM DX1 AUXILIARY SYSTEM ON							
Digital output	O.76	=A+A/401.03	13		BF18	BLOCCAGGIO PEZZO AREA DX1 AREA DX1 PIECE LOCKING	VUOTO AUSILIARIO OFF DX1 VACUUM DX1 AUXILIARY SYSTEM OFF							

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini				DESCRIZIONE FOGLIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.			
CREAZIONE		08/07/2004		rsilvestrini				Lista I/O: +F-AL4A7									
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENTE CLIENT BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		REL SCHEMA DIAGRAM		003.007		MATRICOLA SERIAL NUMBER 44929		Foglio 10007	
A3_GLUE_v04_BIESSE		2		3		4		5		6		7		8		10008 F.S.	

1	2		3		4		5		6		7		8	
SCHEMA CARD	+F-AL4 A8		Modulo Module		REGOLAZIONE ADJUSTMENT		CH 1-F		Codice Code		P270		Lista I-O_v03	
TIPO MODEL	INDIRIZZO ADDRESS	FGL.COL SHE.COL	PIN PIN	COND. COND.	COLORE COLOUR	GRUPPO UNIT	FUNZIONE FUNCTION		MNEMONICO MNEMONIC					
Digital input	I.80	=A+A/503.05	1		CJ121	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 1 ALTO TOOL HOLDER 1 UP							
Digital input	I.81	=A+A/504.05	2		CJ122	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 2 ALTO TOOL HOLDER 2 UP							
Digital input	I.82	=A+A/505.05	3		CJ123	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 3 ALTO TOOL HOLDER 3 UP							
Digital input	I.83	=A+A/506.05	4		CJ124	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 4 ALTO TOOL HOLDER 4 UP							
Digital input	I.84	=A+A/503.06	5		CJ131	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 1 BASSO TOOL HOLDER 1 DOWN							
Digital input	I.85	=A+A/504.06	6		CJ132	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 2 BASSO TOOL HOLDER 2 DOWN							
Digital input	I.86	=A+A/505.06	7		CJ133	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 3 BASSO TOOL HOLDER 3 DOWN							
Digital input	I.87	=A+A/506.06	8		CJ134	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PORTAUTENSILE 4 BASSO TOOL HOLDER 4 DOWN							
Digital input	I.88	=A+A/503.07	9		CJ141	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PRESENZA UTENSILE SU PORTAUTENSILE 1 TOOL PRESENT ON TOOL HOLDER 1							
Digital input	I.89	=A+A/504.07	10		CJ142	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PRESENZA UTENSILE SU PORTAUTENSILE 2 TOOL PRESENT ON TOOL HOLDER 2							
Digital input	I.90	=A+A/505.07	11		CJ143	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PRESENZA UTENSILE SU PORTAUTENSILE 3 TOOL PRESENT ON TOOL HOLDER 3							
Digital input	I.91	=A+A/506.07	12		CJ144	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	PRESENZA UTENSILE SU PORTAUTENSILE 4 TOOL PRESENT ON TOOL HOLDER 4							
Digital input	I.92	=A+A/502.05	13		CJ13	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	COPERCHIO APERTO MAGAZZINO UTENSILI OPEN COVER TOOL MAGAZINE							
Digital input	I.93	=A+A/502.06	14		CJ14	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	COPERCHIO CHIUSO MAGAZZINO UTENSILI CLOSE COVER TOOL MAGAZINE							
Digital output	O.80	=A+A/502.02	1		CJ11	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	APERTURA COPERCHIO MAGAZZINO UTENSILI COVER OPEN TOOL MAGAZINE							
Digital output	O.81	=A+A/502.03	2		CJ12	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	CHIUSURA COPERCHIO MAGAZZINO UTENSILI COVER CLOSED TOOL MAGAZINE							
Digital output	O.82	=A+A/503.02	3		CJ111	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	SOLLEVAMENTO PORTAUTENSILE 1 TOOL HOLDER 1 UP							
Digital output	O.83	=A+A/504.02	4		CJ112	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	SOLLEVAMENTO PORTAUTENSILE 2 TOOL HOLDER 2 UP							
Digital output	O.84	=A+A/505.02	5		CJ113	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	SOLLEVAMENTO PORTAUTENSILE 3 TOOL HOLDER 3 UP							
Digital output	O.85	=A+A/506.02	6		CJ114	MAGAZZINO UTENSILE TIPO RASTRELLIERA RACK TYPE TOOL MAGAZINE	SOLLEVAMENTO PORTAUTENSILE 4 TOOL HOLDER 4 UP							

REVISIONE		ELABORAZ. 08/07/2004		rsilvestrini				DESCRIZIONE FOLGIO SHEET DESCRIPTION		ROVER 20 (03)		= A		Gr.Fun.			
CREAZIONE		08/07/2004		rsilvestrini				Lista I/O: +F-AL4 A8						+		Foglio 10008	
REV. MODIFICA		DATA		DISEGNATORE		VER. E APPR.		CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		REL SCHEMA DIAGRAM		003.007		MATRICOLA SERIAL NUMBER 44929		30000 F.S.	

1	2	3	4	5	6	7	8
SIGLA CODE	DESCRIZIONE DESCRIPTION	FUNZIONE FUNCTION	GRUPPO UNIT	FGL.COL SHE.COL	CODICI CODES	QNT. QNTY.	DATI DATA
A	+A-AL1A1	RTU500 RTU500	CONTROLLO NUMERICO NUMERICAL CONTROL	120.1			
	+A-AL1A2	VEDI GESTIONALE	CONTROLLO NUMERICO NUMERICAL CONTROL	121.1	VEDI GESTIONALE	1	
	+A-AL1A3	VEDI GESTIONALE	CONTROLLO NUMERICO NUMERICAL CONTROL	121.5	VEDI GESTIONALE	1	
	+A-AL4 A1	SCHEDA 16+16R I/O REV.C	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	130.1	0102D260C P260	1	CH 0-A
B	+A-AL4 A2	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	130.5	0102D270A P270 HSD CAMAR EEE1010270	1	CH 0-B
	+D-AL4A3	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	133.1	0102D270A P270 HSD CAMAR EEE1010270	1	CH 1-0
	+D-AL4 A4	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	133.5	0102D270A P270 HSD CAMAR EEE1010270	1	CH 1-1
	+F-AL4A6	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	138.1	0102D270A P270 HSD CAMAR EEE1010270	1	CH 1-D
C	+F-AL4A7	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	138.5	0102D270A P270 HSD CAMAR EEE1010270	1	CH 1-E
	+F-AL4 A8	SCHEDA 16+16T I/O REV.A OUT 24V 0.5A	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	139.1	0102D270A P270 HSD CAMAR EEE1010270	1	CH 1-F
	+A-AP1K1	MODULO 3TK2821-2CB30 ALIMENTAZIONE 24V AC/DC ALLACCIAMENTO CA	MARCIA AUSILIARI START AUX.	160.3	2105A0182 SIEMENS 3TK28212CB30 SIE5802360	1	
	+A-AP1K3	TELER.3RT10 16-2BB42 1 NC	POTENZA MACCHINA MACHINE POWER	161.3	2105A0166 SIEMENS 3RT10162BB42 SIE5805606	1	
D		VARISTORE 3ZT1916-1BB00 AC 24 fino 48V DC 24 fino 70V			2163A0015 SIEMENS 3ZT19161BB00 SIE5880120	1	
	+A-AP1K4	BLOCCETTO TEMP. 3RT1916-2CG11 CON USCITA STATICA RITARDATO ALLA ECCITA	T=0,5 sec.	161.4	2123A0098 SIEMENS 3RT19162CG11 SIE5865370	1	
	+A-AP1K5	TELER.3RT10 16-2BB42 1 NC	PRECARICA PRELOADING	161.4	2105A0166 SIEMENS 3RT10162BB42 SIE5805606	1	
	+A-AR1K1	TELER.3RT10 16-2BB42 1 NC	ATTREZZAGGIO TOOLING	170.2	2105A0166 SIEMENS 3RT10162BB42 SIE5805606	1	
E		VARISTORE 3ZT1916-1BB00 AC 24 fino 48V DC 24 fino 70V			2163A0015 SIEMENS 3ZT19161BB00 SIE5880120	1	
	+A-AS1K1	TELER.3RT10 34-3BB40 ASSORBIMENTO BOBINA 13,3W	INVERTER 1 INVERTER 1	200.7	2105A0168 SIEMENS 3RT10343BB40 SIE5805630	1	
		VARISTORE 3ZT1926-1BB00 AC 24 fino 48V DC 24 fino 70V			2163A0017 SIEMENS 3ZT19261BB00 SIE5880103	1	
		CONT.AUX.1NC 3RH1921-2CA01			2123A0013 SIEMENS 3RH19212CA01 SIE5865362	1	
F							

Lista componenti (funzione)_v01

REVISIONE	ELABORAZ.	08/07/2004	rsilvestrini		DESCRIZIONE FOLGIO SHEET DESCRIPTION	ROVER 20 (03)			=	Gr.Fun.	
CREAZIONE	18/01/2000	Cicchetti	CLIENTE		Lista materiali: (+A-AL1A1 - +A-AS1K1)	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 30000
REV.	MODIFICA	DATA	DISEGNATORE		VER. E APPR.	CLIENT	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE				30001 F.S.

1	2	3	4	5	6	7	8	
SIGLA CODE	DESCRIZIONE DESCRIPTION	FUNZIONE FUNCTION	GRUPPO UNIT	FGL.COL SHE.COL	CODICI CODES	QNT. QNTY.	DATI DATA	
A	+A-AS1K2	TEL.AUS.3RH11 22-2HB40 BOBINA 2,3W 2NO+2NC	INVERTER FERMO INVERTER IDLE	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY	201 .4	SIEMENS 3RH11222HB40	CAMAR SIE5829206	1
		VARISTORE 3ZT1916-1BB00 AC 24 fino 48V DC 24 fino 70V			.	SIEMENS 3ZT19161BB00	CAMAR SIE5880120	1
B	+A-AU1K1	TELER.3RT10 26-3BB40	ABILITAZIONE ENABLE	ALIMENTAZIONE AZIONAMENTI DRIVES POWER SUPPLY	230 .7	SIEMENS 3RT10263BB40	CAMAR SIE5805618	1
		VARISTORE 3ZT1926-1BB00 AC 24 fino 48V DC 24 fino 70V			.	SIEMENS 3ZT19261BB00	CAMAR SIE5880103	1
B		CONT.AUX.1NC 3RH1921-2CA01			.	SIEMENS 3RH19212CA01	CAMAR SIE5865362	1
	+A-BA1K1	RELE' A 4 CONTATTI OMRON		BATTUTE AREA SX1 AREA SX1 STOPS	303 .6	OMRON MY4 24DC	CAMAR OMR5705032	1
C		ZOCOLO X RELE' FINDER 4C			.	FINDER 9474	CAMAR FIN5719074	1
		DIODO 1N4007 1000 V			.		CAMAR EEE4103010	1
C	+A-CA1K1	TELER.3RT10 16-2BB42 1 NC	ABILITAZIONE ENABLE	GRUPPO DI FORATURA BORING UNIT	450 .7	SIEMENS 3RT10162BB42	CAMAR SIE5805606	1
		VARISTORE 3ZT1916-1BB00 AC 24 fino 48V DC 24 fino 70V			.	SIEMENS 3ZT19161BB00	CAMAR SIE5880120	1
D	+A-SA1K1	TELERUTTORE 3RT10 25-3BB40 24VDC	ABILITAZIONE ENABLE	SLOT A SLOT A	700 .7	SIEMENS 3RT10253BB40	CAMAR SIE5805614	1
		VARISTORE 3ZT1926-1BB00 AC 24 fino 48V DC 24 fino 70V			.	SIEMENS 3ZT19261BB00	CAMAR SIE5880103	1
D		CONT.AUX.1NC 3RH1921-2CA01			.	SIEMENS 3RH19212CA01	CAMAR SIE5865362	1
	-SA1K3	BLOCCO MECCANICO 24V		SLOT A SLOT A	700 .3			1
E	+A-UZ1K1	RELE' A 4 CONTATTI OMRON	FRENO BRAKE	ASSE Z Z-AXIS	881 .7	OMRON MY4 24DC	CAMAR OMR5705032	1
		DIODO 1N4007 1000 V			.		CAMAR EEE4103010	1
E		ZOCOLO X RELE' FINDER 4C			.	FINDER 9474	CAMAR FIN5719074	1
	+A-VB1K1	VARISTORE 3ZT1916-1BB00 AC 24 fino 48V DC 24 fino 70V	MARCIA START	POMPA DEL VUOTO 1 VACUUM PUMP 1	901 .2	SIEMENS 3ZT19161BB00	CAMAR SIE5880120	1
F		TELER.3RT10 16-2BB41			.	SIEMENS 3RT10162BB41	CAMAR SIE5805604	1
	+A-VB2K1		POMPA DEL VUOTO 2 VACUUM PUMP 2	POMPA DEL VUOTO 2 VACUUM PUMP 2	.			
	+A-WD1K1			TAPPETI DI SICUREZZA CONTACT MATS	.			

Lista componenti (funzione)_v01

REVISIONE	ELABORAZ.	08/07/2004	rsilvestrini		DESCRIZIONE FOLGIO SHEET DESCRIPTION	ROVER 20 (03)	= A	Gr.Fun.			
CREAZIONE	08/07/2004	rsilvestrini	CLIENTE						Lista materiali: (+A-AS1K2 - +A-WD1K1)	REL	SCHEMA DIAGRAM
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.	CLIENT	BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE					30002 F.S.


1	2	3	4	5	6	7	8	
SIGLA CODE	DESCRIZIONE DESCRIPTION	FUNZIONE FUNCTION	GRUPPO UNIT	FGL.COL SHE.COL	CODICI CODES	QNT. QNTY.	DATI DATA	
A	+A-WD1K2		TAPPETI DI SICUREZZA CONTACT MATS					
	+A-WD1K3		TAPPETI DI SICUREZZA CONTACT MATS					
	+F-AL4P1	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 1 DISPLAY 1	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	140.2	0102D810A P810	1	
	+F-AL4P2	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 2 DISPLAY 2	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	140.3	0102D810A P810	1	
B	+F-AL4P3	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 3 DISPLAY 3	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	140.5	0102D810A P810	1	
	+F-AL4P4	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 4 DISPLAY 4	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	140.6	0102D810A P810	1	
	+F-AL4P5	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 5 DISPLAY 5	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	141.2	0102D810A P810	1	
	+F-AL4P6	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 6 DISPLAY 6	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	141.3	0102D810A P810	1	
C	+F-AL4P7	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 7 DISPLAY 7	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	141.5	0102D810A P810	1	
	+F-AL4P8	SCHEDA 810 RV.A 1+4 DIGIT	DISPLAY 8 DISPLAY 8	MODULI INPUT-OUTPUT INPUT-OUTPUT MODULES	141.6	0102D810A P810	1	
	+A-AA1Q1	INTERRUT. T1B 3X60 A IEC 50876 F FC Cu (1x70mm)	PROT.GENERALE MAIN PROT.	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY	50.3	ABB SACE CAMAR 2102A0126 1SDA050876R1 ABB6110403	1	In 63 A
		CALOTTA T1 3P BASSA 51421 LTC				ABB SACE CAMAR 2102A0148 1SDA051421R1 ABB6105400	1	
D		MANOVRA COM.SER.TMAX NORM. (NORMALE) NERA x T1				ABB SACE CAMAR 2102A0160 1SDA051383R1 ABB6107400	1	
	+A-AA1Q2	INT.14-20 A 3RV1031 4BA10		ALIMENTAZIONE GENERALE MAIN POWER SUPPLY	53.4	SIEMENS CAMAR 2101A0244 3RV10314BA10 SIE6106223	1	In 14-20A In 14-20A Ir 14A
		CONTATTO AUSILIARIO				SIEMENS CAMAR 2123A0003 3RV19011D SIE6050102	1	
	+A-AA1Q3	INT.AUT.4,5-6,3 A	PROTEZIONE PROTECTION	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY	54.3	SIEMENS CAMAR 2101A0047 3RV10211GA10 SIE6005380	1	In 4,5-6,3A Ir=4,5A
E	+A-AG1Q1	INT.AUT.2,2-3,2 A	PROTEZIONE PROTECTION	LINEA 24Vdc 24Vdc LINE	90.3	SIEMENS CAMAR 2101A0044 3RV10211DA10 SIE6005365	1	In 2,2-3,2A Ir 3A
	+A-AG1Q2	INTER.AUTOMAT.5SY6104-7	INPUT 24Vdc INPUT 24Vdc	LINEA 24Vdc 24Vdc LINE	91.2	SIEMENS CAMAR 2101A0207 5SY61047 SIE6141047	1	In 4 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR 2123A0096 5ST3010 SIE6130100	1	
	+A-AG1Q4	INTER.AUTOMAT.5SY6105-7	EMERGENZA EMERGENCY	LINEA 24Vdc 24Vdc LINE	91.3	SIEMENS CAMAR 2101A0202 5SY61057 SIE6141057	1	In 0,5 A

Lista componenti (funzione)_v01

REVISIONE ELABORAZ. 08/07/2004 rsilvestrini CREAZIONE 08/07/2004 rsilvestrini REV. MODIFICA DATA DISEGNATORE VER. E APPR.				 CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE		DESCRIZIONE FOLGIO SHEET DESCRIPTION Lista materiali: (+A-WD1K2 - +A-AG1Q4)			ROVER 20 (03) = A +		Gr.Fun. Foglio 30002 30003 F.S.	
REL		SCHEMA DIAGRAM		003.007		MATRICOLA SERIAL NUMBER		44929				


1	2	3	4	5	6	7	8
SIGLA CODE	DESCRIZIONE DESCRIPTION	FUNZIONE FUNCTION	GRUPPO UNIT	FGL.COL SHE.COL	CODICI CODES	QNT. QNTY.	DATI DATA
A	+A-AG1Q6	INTER.AUTOMAT.5SY6106-7	UNITA' OPERATRICE OPERATING SECTION	LINEA 24Vdc 24Vdc LINE	92.6	SIEMENS CAMAR	1 In 6 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
B	+A-AG1Q9	INTER.AUTOMAT.5SY6104-7	BORDO MACCHINA MACHINE-SIDE	LINEA 24Vdc 24Vdc LINE	92.7	SIEMENS CAMAR	1 In 4 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
C	+A-AG1Q10	INTER.AUTOMAT.5SY6104-7	MAGAZZINI C.U. T.C. MAGAZINE	LINEA 24Vdc 24Vdc LINE	92.5	SIEMENS CAMAR	1 In 4 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
D	+A-AG1Q11	INTER.AUTOMAT.5SY6101-7	FRENI BRAKES	LINEA 24Vdc 24Vdc LINE	91.4	SIEMENS CAMAR	1 In 1 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
E	+A-AG1Q12	INTER.AUTOMAT.5SY6110-7	OUTPUT 24Vdc OUTPUT 24Vdc	LINEA 24Vdc 24Vdc LINE	92.2	SIEMENS CAMAR	1 In 10 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
F	+A-AG1Q14	INTER.AUTOMAT.5SY6102-7	PROTEZIONE PROTECTION	LINEA 24Vdc 24Vdc LINE	93.2	SIEMENS CAMAR	1 In 2 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
G	+A-AJ1Q1	INTER.AUTOMAT.5SY6106-7	PROTEZIONE PROTECTION	LINEA 220Vac 220Vac LINE	100.2	SIEMENS CAMAR	1 In 6 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
H	+A-AJ5Q1	INTER.AUTOMAT.5SY6102-7	PROTEZIONE PROTECTION	PRESA AUSILIARIA AUXILIARY PLUG	110.2	SIEMENS CAMAR	1 In 2 A
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
I	+A-AJ5Q4	INT. DIFFER. 5SM 1312-6 TIPO A		PRESA AUSILIARIA AUXILIARY PLUG	110.2	SIEMENS CAMAR	1 In 25A Id 30mA
						SIEMENS CAMAR	1
J	+A-AU1Q3	INTER.AUTOMAT.5SY6104-7	ALIM.AUX AUX.SUPPLY	ALIMENTAZIONE AZIONAMENTI DRIVES POWER SUPPLY	230.5	SIEMENS CAMAR	1 In 4 A
		CONTATTO AUSIL. 5ST3010				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
K	+A-VB1Q1	INT.AUT.5.5-8 A 3RV10 21-1HA10	PROTEZIONE PROTECTION	POMPA DEL VUOTO 1 VACUUM PUMP 1	900.2	SIEMENS CAMAR	1 In 5,5-8A Ir 7A
		CONTATTO AUSILIARIO				SIEMENS CAMAR	1
						SIEMENS CAMAR	1
						SIEMENS CAMAR	1
L	+A-VB2Q1		PROTEZIONE PROTECTION	POMPA DEL VUOTO 2 VACUUM PUMP 2			

Lista componenti (funzione)_v01

REVISIONE	ELABORAZ.	08/07/2004	rsilvestrini		 BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DESCRIZIONE FOLGIO SHEET DESCRIPTION	ROVER 20 (03)		= A	Gr.Fun.		
CREAZIONE	08/07/2004	rsilvestrini		CLIENTE		Lista materiali: (+A-AG1Q6 - +A-VB2Q1)	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 30003
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.								30004 F.S.

1	2	3	4	5	6	7	8
SIGLA CODE	DESCRIZIONE DESCRIPTION	FUNZIONE FUNCTION	GRUPPO UNIT	FGL.COL SHE.COL	CODICI CODES	QNT. QNTY.	DATI DATA
A	+A-AG1R1	RESISTENZA 1,5 OHM 10 W CERAMICA	PRECARICA PRELOADING	LINEA 24Vdc 24Vdc LINE	92.4	2122A0137	1 1,5 OHM 10 WAT
A	+A-AS1R1	RESISTENZA 25 ohm 1300 W RFXT/S TERMOSTATO TIPO A3K 425°C A RIPRISTINO	FRENATURA BRAKING	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY	164.7	2122A0144 FAIRFIELD RFXT/S	1 40 Ω 1300W
		DISSIPATORE X RESIS.1300W				2181A0002	1
	+A-AA1T1	TRASFORMAT.MONOFASE 1600VA Primario: 200-230-400-460-600V+-20V	AUSILIARI AUXILIARES	ALIMENTAZIONE GENERALE MAIN POWER SUPPLY	54.2	2107A0293 CE S.p.a. CAMAR TTT2704702	1 An=1600VA
B	+A-AS1U1	INVERTER YASKAWA 11 KW 11KW 380-460V TRI MARCATO UL/CSA FREQ. 1	INVERTER INVERTER	ALIMENTAZIONE INVERTER 1 INVERTER 1 POWER SUPPLY	200.2	2157A0070 YASKAWA ELEC G5C40111F0053 CAMAR YAS4910090	1 Pn 11 kW
B	+A-UX1U1	AZ.SGDH-15DE-Y12 YASKAWA SIGMA 2 ANALOGICO TRIFASE 400V 5	AZIONAMENTO DRIVE	ASSE X X-AXIS	860.2	2159A0078 YASKAWA ELEC SGDH15DEY12 CAMAR YAS4810015	1 Pn 1,5 kW
		SCHEDA JASP-NS100 MODULO DIGITALE (OPZIONALE) PER AZIONAME				2153A0135 YASKAWA ELEC JUSPNS100 CAMAR YAS4820100	1
		GR. CONNETT. 1CN UNIV. PER AZIONAMENTI SGDH				6480A0052 CAMAR CAM0610153	1
C		CAVO USB TIPO "A" mt 3 MASCHIO/MASCHIO				6480A0049 CAMAR EEE4540003	1
C	+A-UY1U1	GR. CONNETT. 1CN UNIV. PER AZIONAMENTI SGDH	AZIONAMENTO DRIVE	ASSE Y Y-AXIS	870.2	6480A0052 CAMAR CAM0610153	1 Pn 1 kW
		CAVO USB TIPO "A" mt 1 MASCHIO/MASCHIO				6480A0050 CAMAR EEE4540001	1
		SCHEDA JASP-NS100 MODULO DIGITALE (OPZIONALE) PER AZIONAME				2153A0135 YASKAWA ELEC JUSPNS100 CAMAR YAS4820100	1
		AZ.SGDH-10DE YASKAWA SIGMA 2 ANALOGICO TRIFASE 400V 5				2159A0082 YASKAWA ELEC SGDH10DE CAMAR YAS4810010	1
D	+A-UZ1U1	GR. CONNETT. 1CN UNIV. PER AZIONAMENTI SGDH	AZIONAMENTO DRIVE	ASSE Z Z-AXIS	880.2	6480A0052 CAMAR CAM0610153	1 Pn 0,5 kW
		CAVO USB TIPO "A" mt 1 MASCHIO/MASCHIO				6480A0050 CAMAR EEE4540001	1
		SCHEDA JASP-NS100 MODULO DIGITALE (OPZIONALE) PER AZIONAME				2153A0135 YASKAWA ELEC JUSPNS100 CAMAR YAS4820100	1
		AZ.SGDH-05DE YASKAWA SIGMA 2 ANALOGICO TRIFASE 400V 5				2159A0079 YASKAWA ELEC SGDH05DE CAMAR YAS4810005	1
E	+A-AJ1Z1	FILTRO 0.1mF+100OHM 250VAC TIPO PICCOLO		LINEA 220Vac 220Vac LINE	100.7	2163A0001 ACTRONIC ARC02A010 CAMAR EEE4006201	1
	+A-VB1Z1	FILTRO X MOTORI RC ARK CAVETTO 50CM. REV.1		POMPA DEL VUOTO 1 VACUUM PUMP 1	900.1	2163A0046 ACTRONIC CAMAR EEE4307030	1 0,22 µf + 22 Ohm
F							

Lista componenti (funzione)_v01

REVISIONE	ELABORAZ.	08/07/2004	rsilvestrini		 BIESSE CLIENTE BIESSE GROUP RUSSIA - REPRESENTATIVE OFFICE	DESCRIZIONE FOGLIO SHEET DESCRIPTION	ROVER 20 (03)		= A	Gr.Fun.		
CREAZIONE	08/07/2004	rsilvestrini		CLIENTE		Lista materiali: (+A-AG1R1 - +A-VB1Z1)	REL	SCHEMA DIAGRAM	003.007	MATRICOLA SERIAL NUMBER	44929	Foglio 30004
REV.	MODIFICA	DATA	DISEGNATORE	VER. E APPR.								F.S.