



BAYKAL MAKINA SAN. ve TIC. A. S.

Organize San. Bölgesi
 Yeşil cadde No: 24
 Bursa
 Tel.: (224) 243 83 10
 Fax : (224) 243 12 86

Customer :
 Plant designation : APH
 Drawing No : APH.C421L00
 Project No :
 Date : 01.05.2006
 Responsible for :
 Project

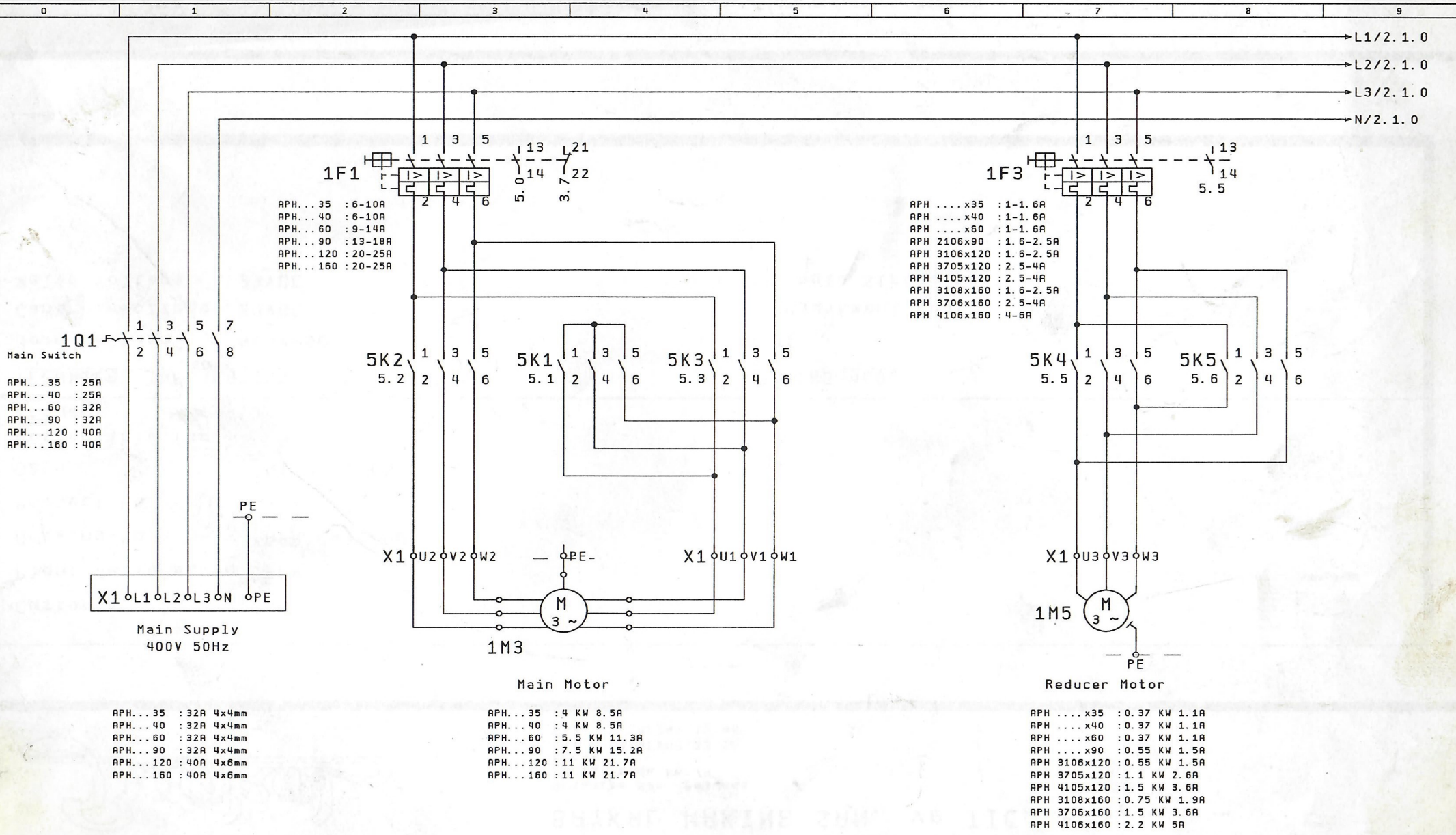
TECHNICAL INFORMATION

Main Voltage : 400V 50HZ
 Control Voltage : 24VAC
 Valve Voltage : 24VDC

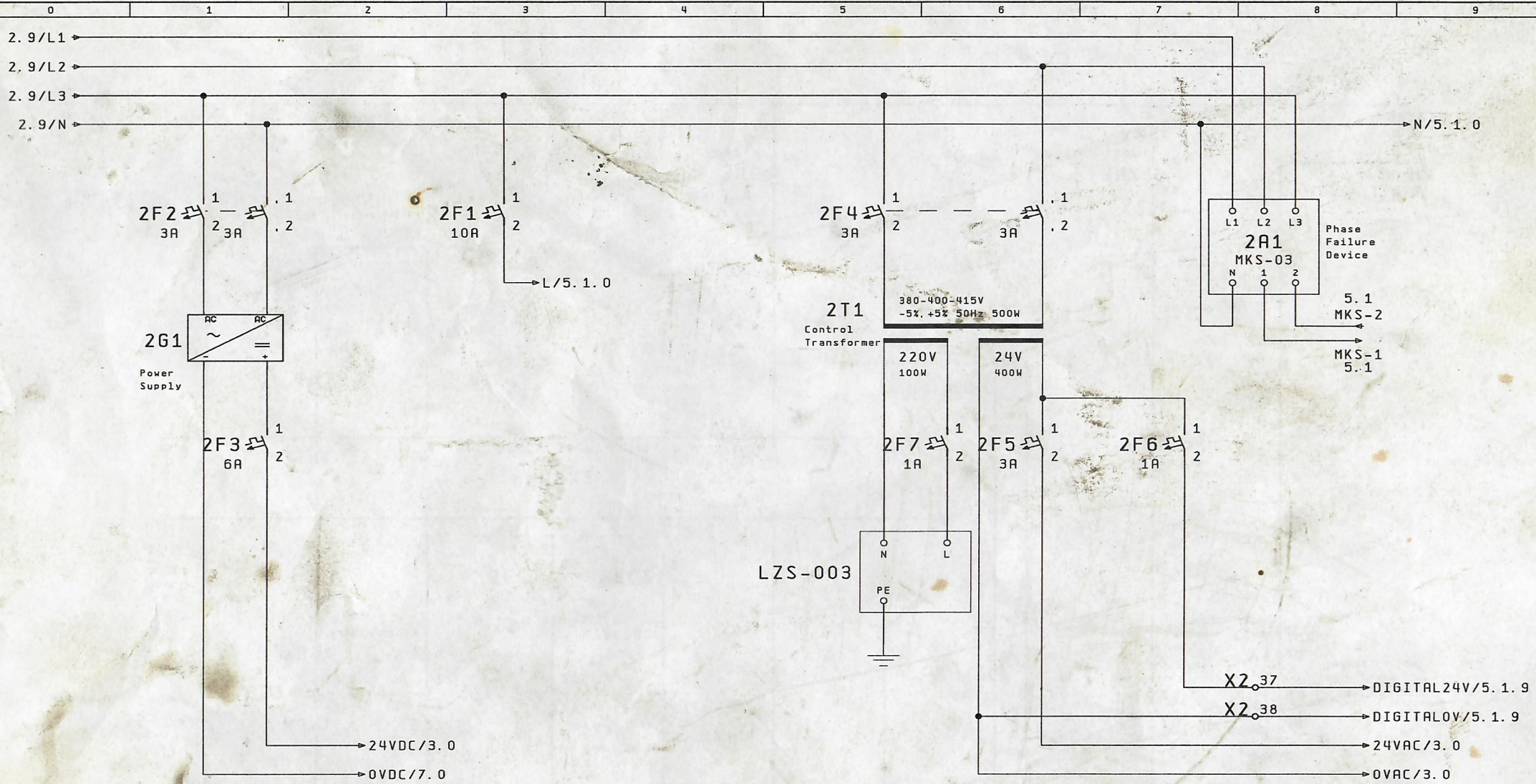
WORKING MODE

0 Off
 1 Adjustment Foot
 2 Single Stroke Foot

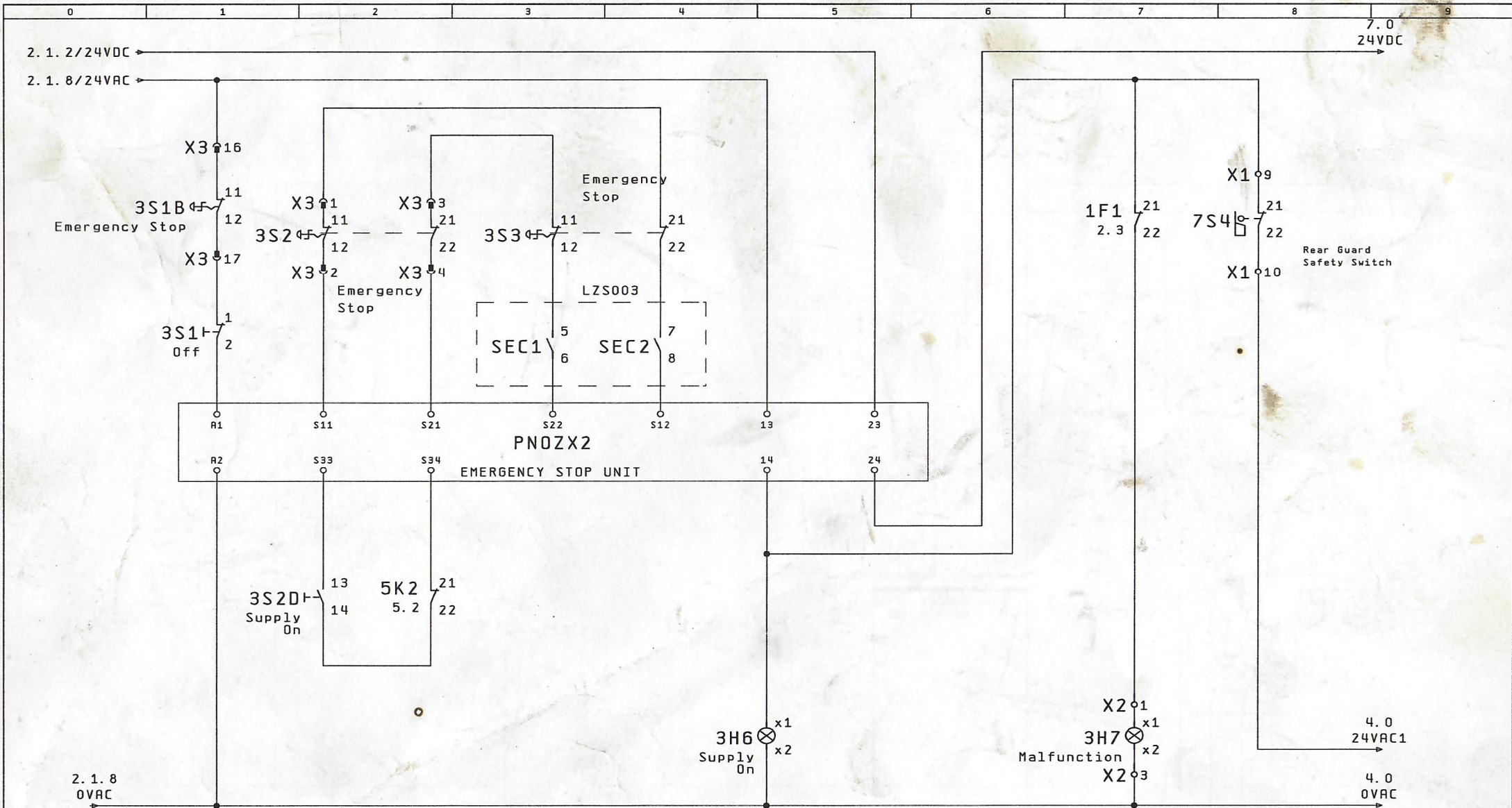
			Date	APH		APH ELECTRICAL DIAGRAM Contents				
			Editor	PC1						
			Tested	08. May. 2006						
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH.C421L00		P. 1 13 P.	



Date		APH				APH ELECTRICAL DIAGRAM			
Editor		PC1				Power Circuit			
Tested		08. May. 2006							
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00		P. 2
								13 P.	



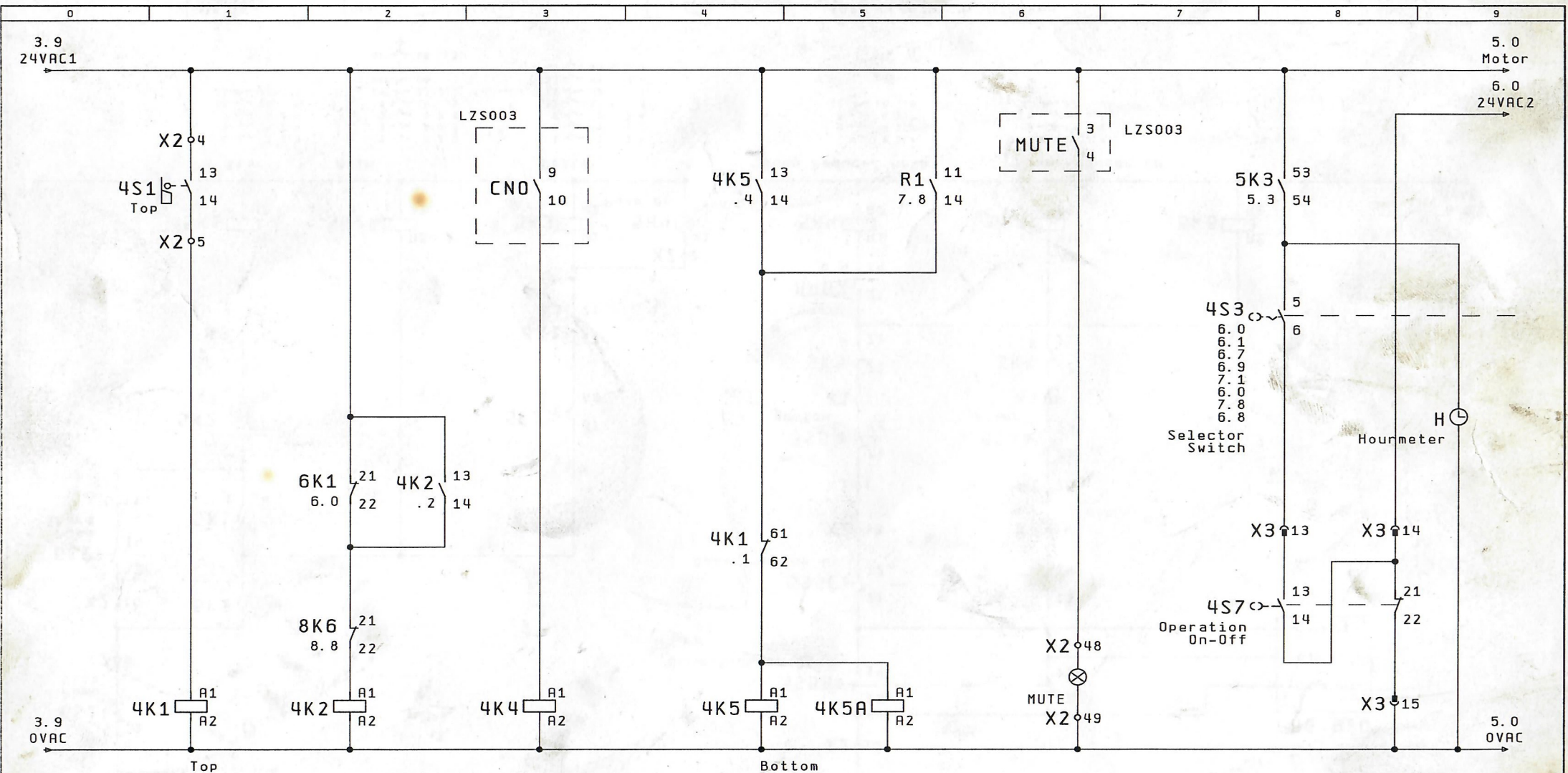
Date		APH			APH ELECTRICAL DIAGRAM Power Circuit				
Editor		PC1							
Tested		08. May. 2006							
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00		P. 2. 1
									13 P.



2.1

4

		Date	APH					
		Editor	PC1		<i>Baykal</i>		APH ELECTRICAL DIAGRAM	
		Tested	08. May. 2006				Emergency Stop	
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00	
							P. 3	
							13 P.	



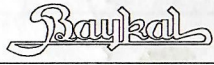
31 ↗ 32 7.7
 43 ↗ 44 8.9
 51 ↗ 52 8.8
 61 ↗ 62 .4

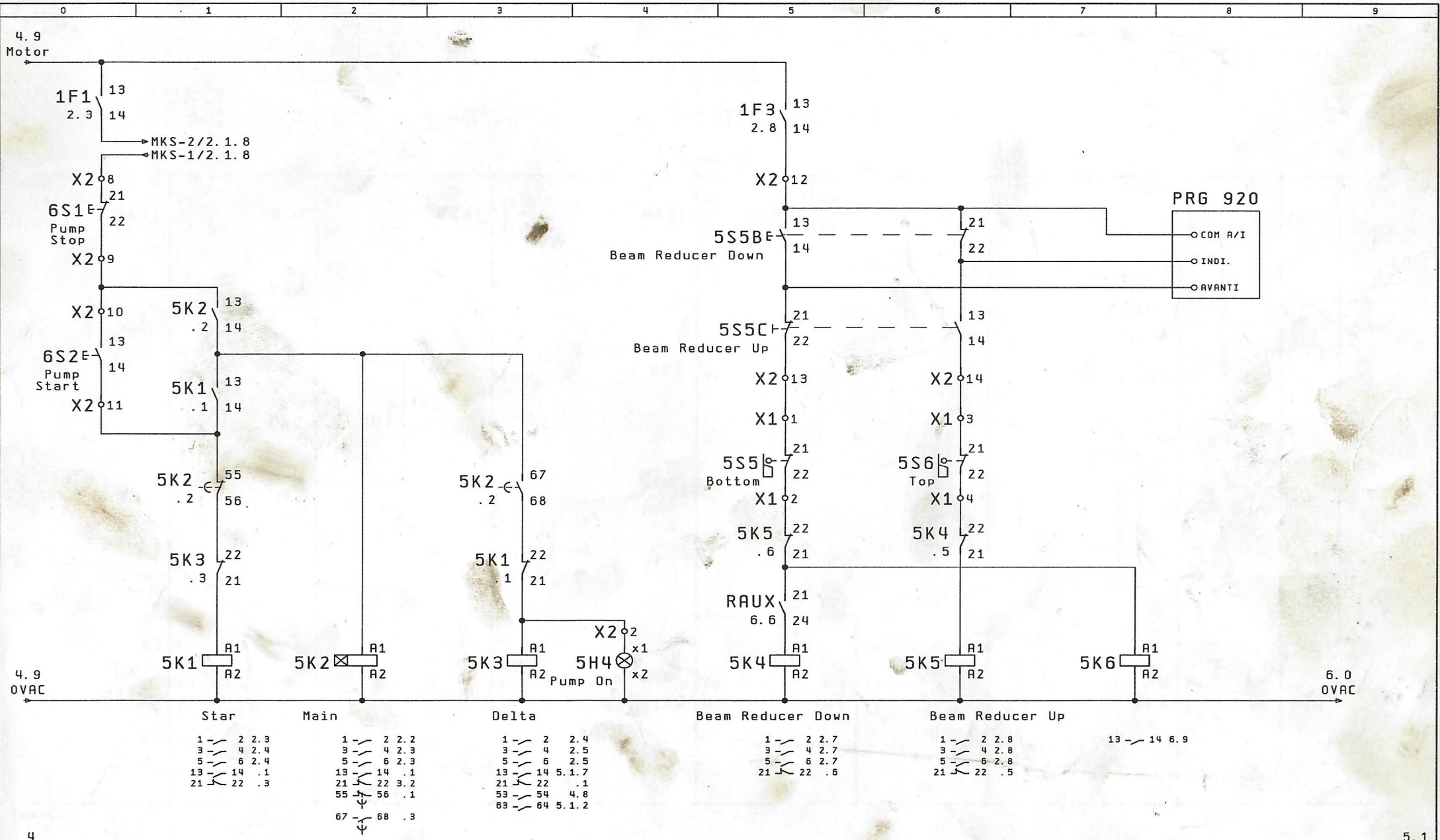
13 ↗ 14 .2
 43 ↗ 44 6.3

31 ↗ 32 7.8
 03 ↗ 04 5.1.8

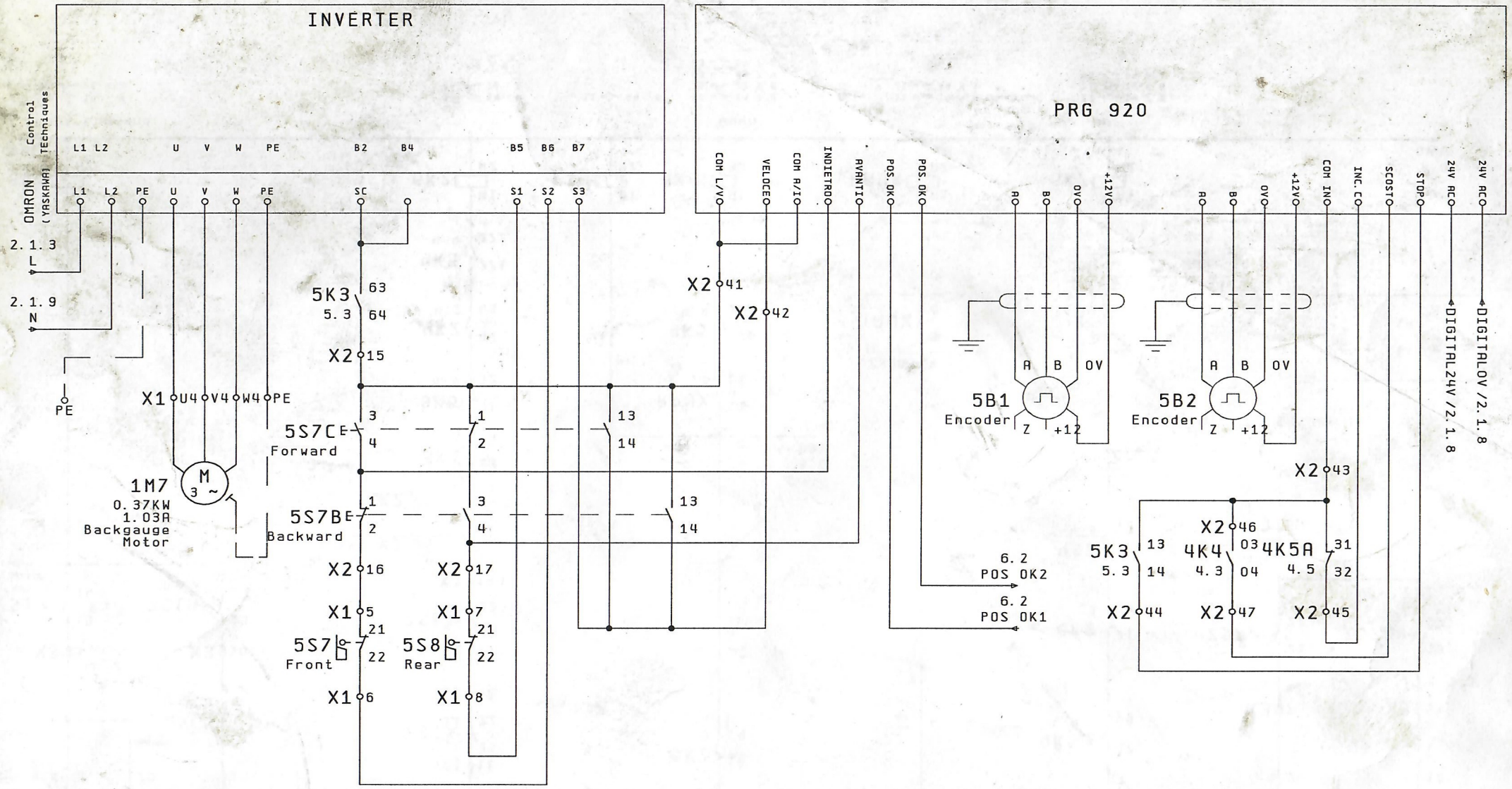
13 ↗ 14 .4
 21 ↗ 22 7.6
 67 ↗ 68 6.7
 271 ↗ 272 6.3
 281 ↗ 282 6.4

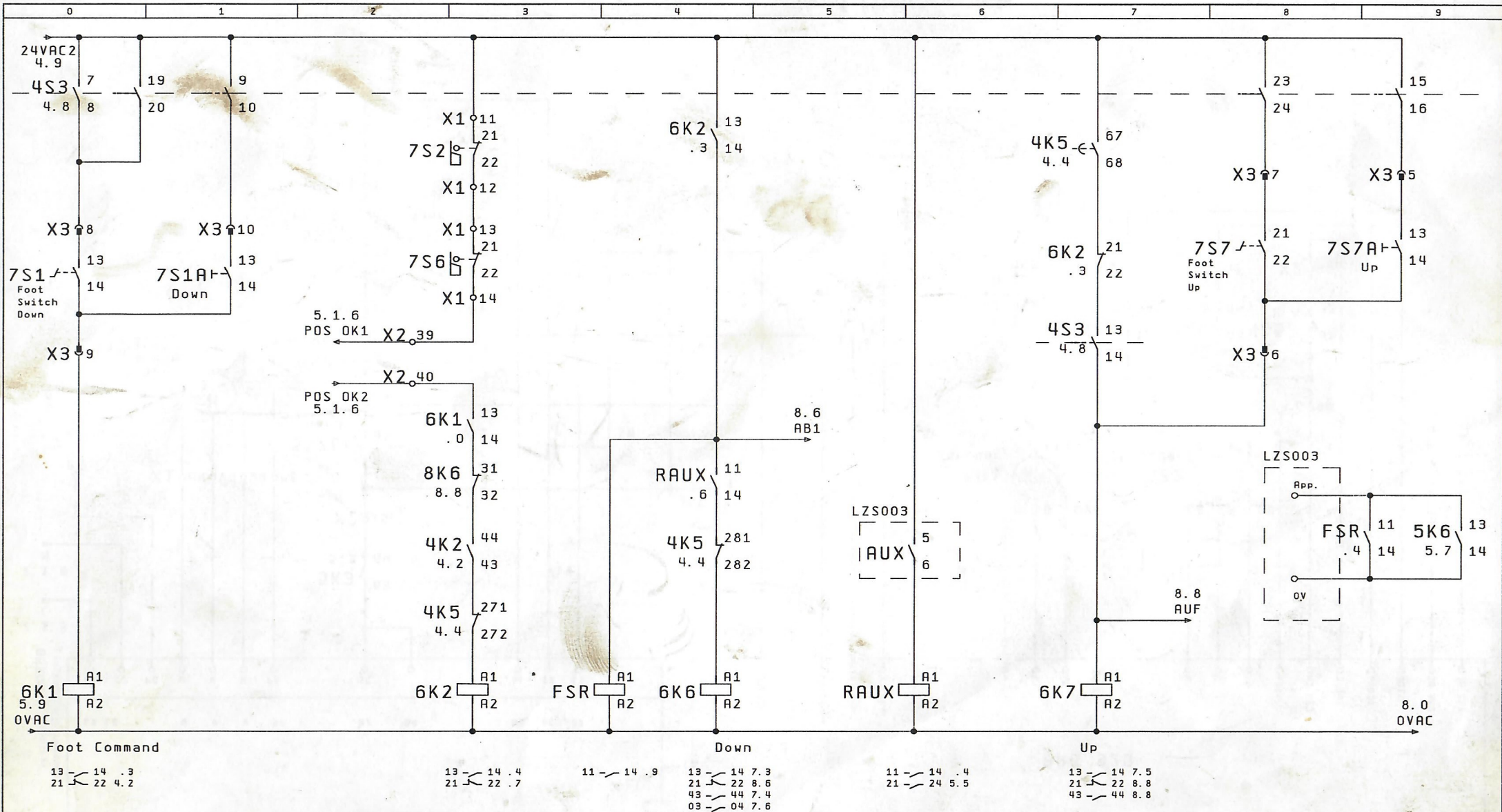
21 ↗ 22 8.6
 31 ↗ 32 5.1.8

Date				APH						APH ELECTRICAL DIAGRAM			
Editor				PC1						Control Circuit			
Tested				08. May. 2006						P. 4			
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00				13 P.		



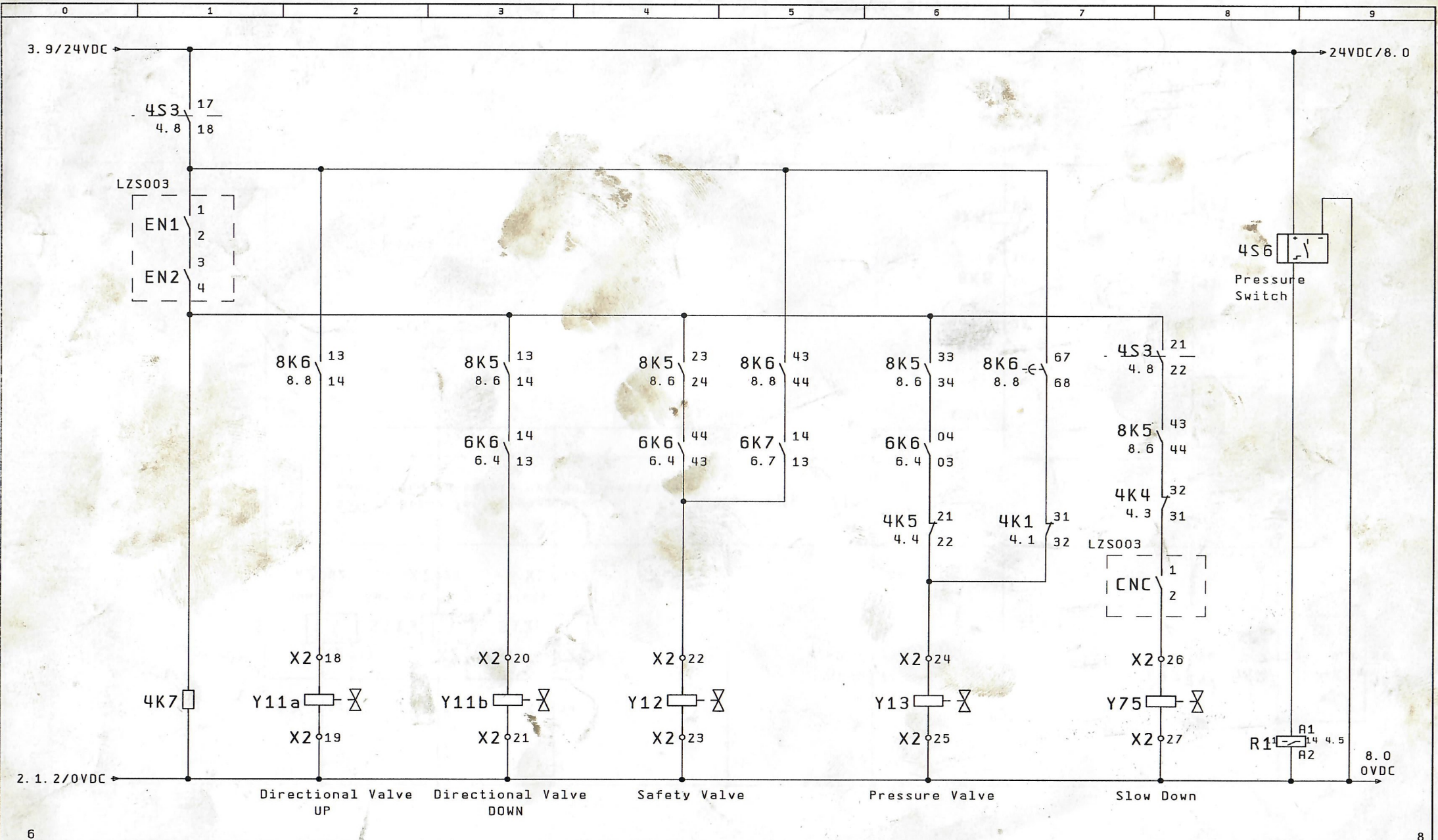
4		5.1	
Date	APH	APH ELECTRICAL DIAGRAM	
Editor	PC1	Motor Control	
Tested	08. May. 2006	-	
Changes	Date	Name	Norm
Original	Sub. f.	Sub. b.	
APH. C421L00			P. 5
			13 P.



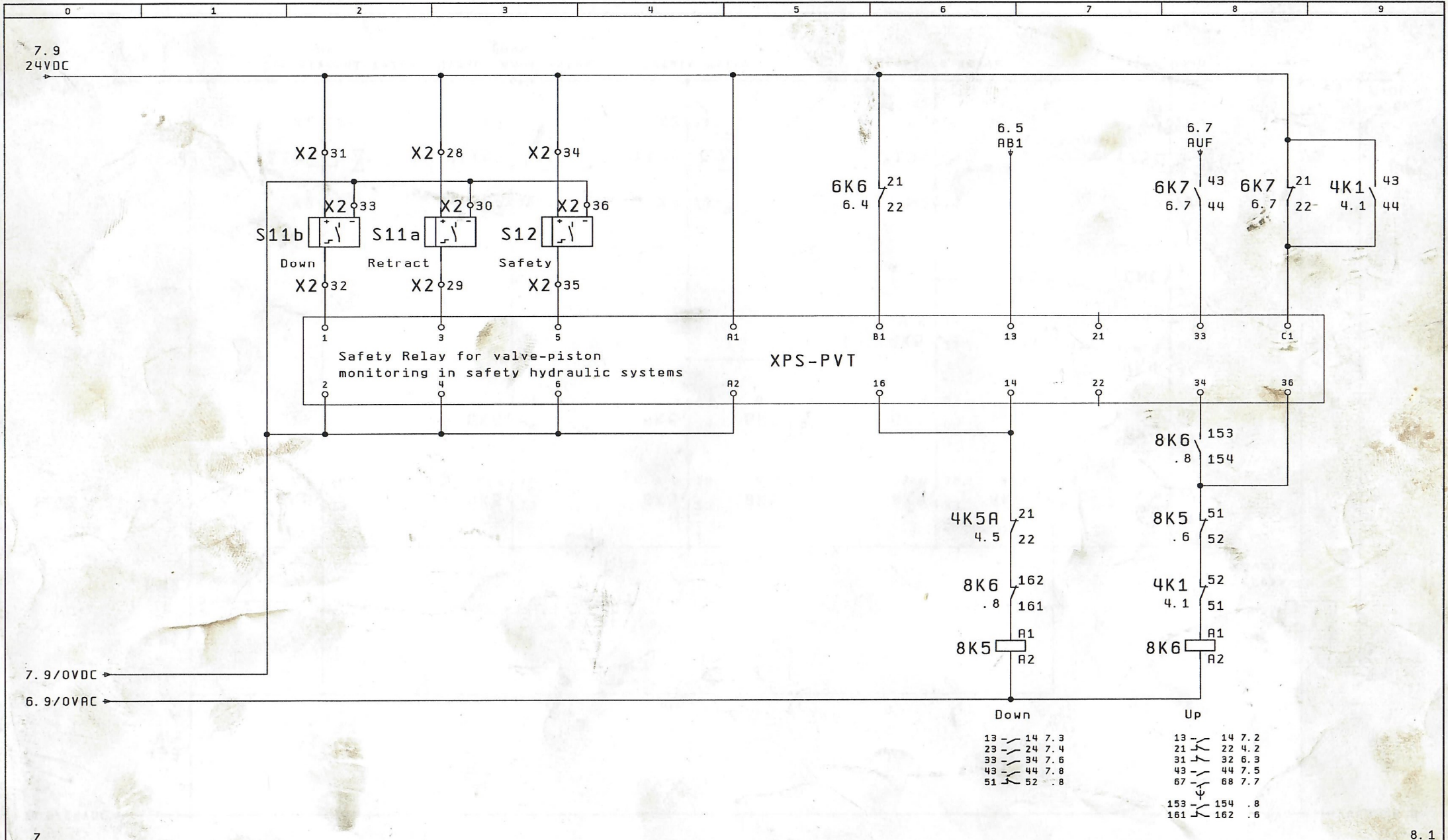


5.1				7			
Date	Editor	PC1	APH		APH ELECTRICAL DIAGRAM		=
Tested	08. May. 2006				Control Circuit		+
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00
							P. 6
							13 P.

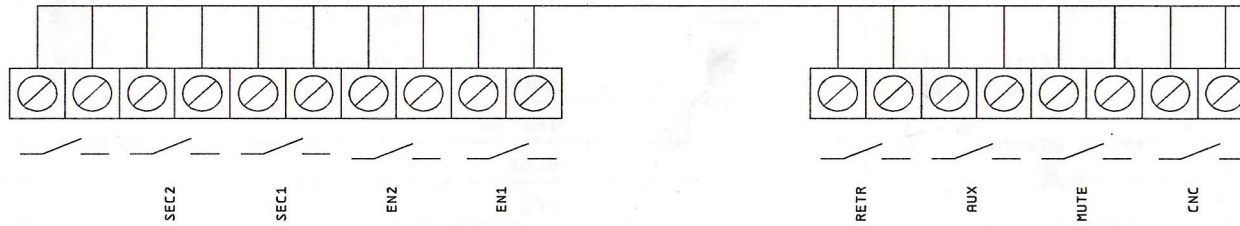




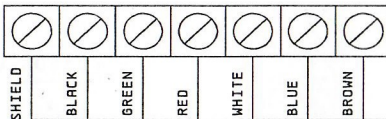
6				8			
Date	APH			<i>Baykal</i>	APH ELECTRICAL DIAGRAM Valve Control		
Editor	PC1						
Tested	08. May. 2006						
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00
							P. 7 13 P.



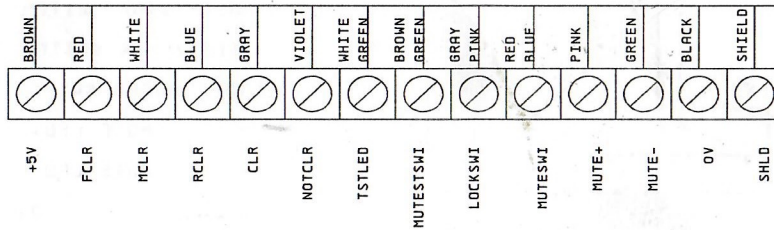
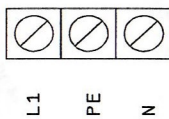
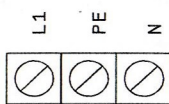
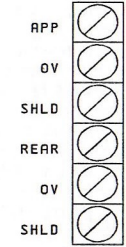
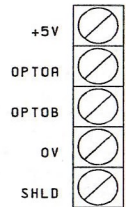
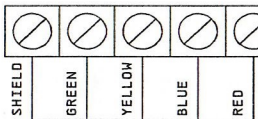
				Date	APH					
				Editor	PC1		Baykal		APH ELECTRICAL DIAGRAM	
				Tested	08. May. 2006		Valve Control			
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00			P. 8
									13 P.	



SHLD 0V MSWS RSNS MSNS FSNS +5V



SHLD 0V LSRB LSRA +5V

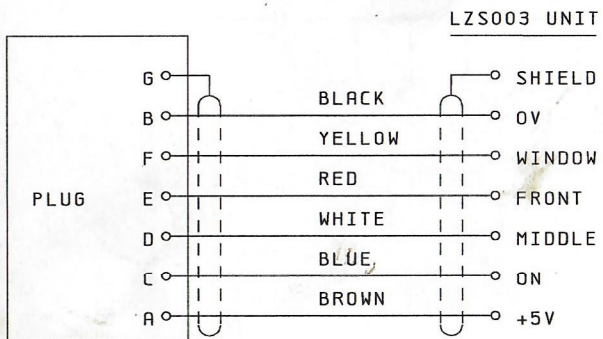


		Date	APH					
		Editor	PC1					-
		Tested	08. May. 2006					+
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00	
							P. 8.1	13 P.

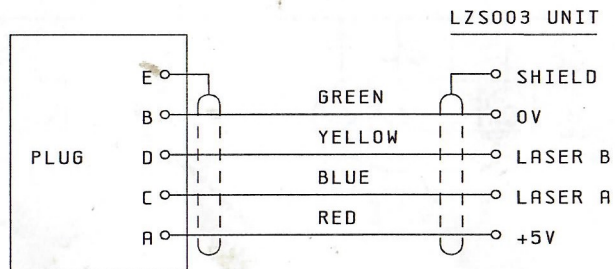


APH ELECTRICAL DIAGRAM
LZS003

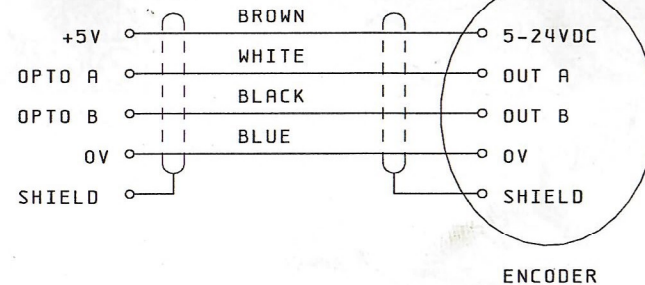
RECEIVER



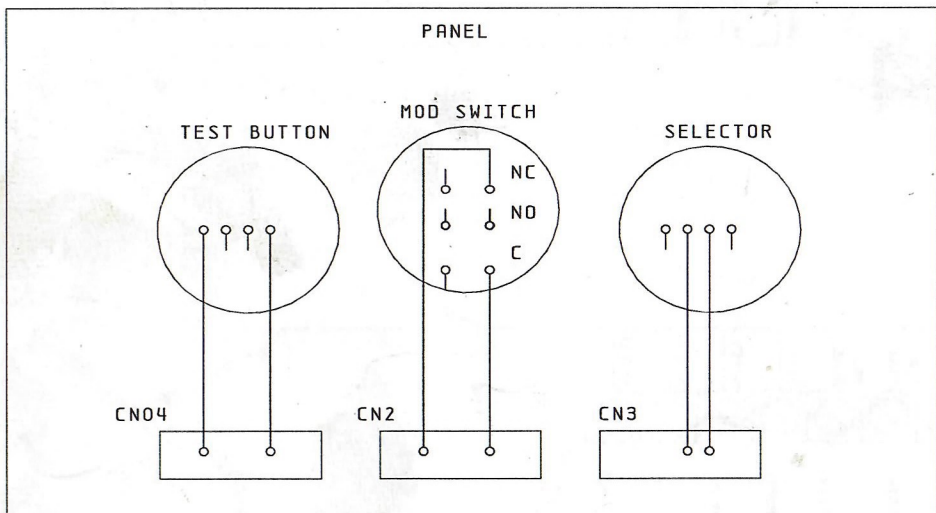
TRANSMITTER



LZS003 UNIT

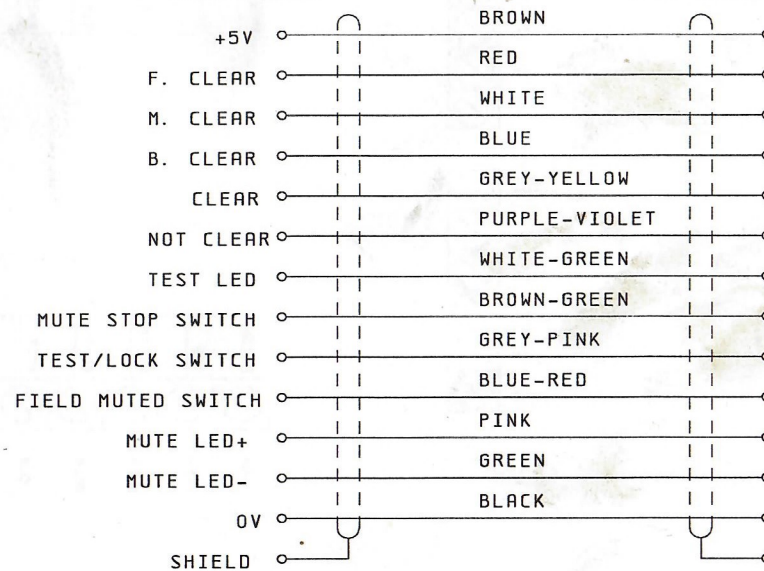


PANEL



LZS003 UNIT

OPERATOR PANEL



8.1

9

Date	
Editor	PC1
Tested	08. May. 2006

APH

Baykal

APH ELECTRICAL DIAGRAM
LZS003

Changes Date Name Norm

Original

Sub. f.

Sub. b.

APH. C421L00

P. 8. 2

13 P.

terminal diagram


WUPK007E 01.03.1994

terminal strip designation X1

Destination	Conn.	No.	Jumper	PLC	Destination	Conn.	Page/path	Path designation / functions
		L1			1Q1	2	2.1	Main Supply
		L2			1Q1	4	2.1	=
		L3			1Q1	6	2.1	=
		N			1Q1	8	2.1	=
		PE			PE		2.1	=
1M3		U2			5K2	2	2.2	Main Motor
1M3		V2			5K2	4	2.3	=
1M3		W2			5K2	6	2.3	=
1M3		PE					2.3	=
1M3		U1			5K3	2	2.4	=
1M3		V1			5K3	4	2.5	=
1M3		W1			5K3	6	2.5	=
1M5		U3			5K4	2	2.7	Reducer Motor
1M5		V3			5K4	4	2.7	=
1M5		W3			5K4	6	2.7	=
1M7		U4		U	INVERTER	U	5.1.1	Backgauge Motor
1M7		V4		V	INVERTER	V	5.1.1	=
1M7		W4		W	INVERTER	W	5.1.1	=
1M7		PE		PE	INVERTER	PE	5.1.1	PE
5S5	21	1			X2	13	5.5	Bottom Limit Switch
5S5	22	2			5K5	22	5.5	=
5S6	21	3			X2	14	5.6	Top Limit Switch
5S6	22	4			5K4	22	5.6	=
5S7	21	5			X2	16	5.1.2	Front Limit Switch
INVERTER	S2	6		S2	5S7	22	5.1.2	=

8.2

10

Date	08. May. 2006	APH		X1				
Editor	AAA							
Tested	08. May. 2006							
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.		
							APH. C421L00	P. 9 13 P.

terminal diagram

WUPK007E 01.03.1994

terminal strip designation X2

Destination	Conn.	No.	Jumper	PLC	Destination	Conn.	Page/path	Path designation / functions
3H7	x1	1			1F1	22	3.7	Malfunction Lamp
5H4	x1	2			5K3	A1	5.4	Pump On
3H7	x2	3			3H6	x2	3.7	Malfunction Lamp
4S1	13	4			X1	10	4.1	Top Sw.
4S1	14	5			4K1	A1	4.1	=
6S1	21	8		1	2A1	1	5.0	Pump Stop
6S1	22	9	•		5K2	13	5.0	=
6S2	13	10	•				5.0	Pump Start
6S2	14	11			5K1	14	5.0	=
5S5B	13	12			1F3	14	5.5	Beam Reducer Down Button
5S5C	22	13			X1	1	5.5	Beam Reducer Up Button
5S5C	14	14			X1	3	5.6	=
5S7C	3	15			5K3	64	5.1.2	Forward Button
X1	5	16			5S7B	2	5.1.2	Backward Button
X1	7	17			5S7B	4	5.1.3	=
Y11a		18			8K6	14	7.2	Directional Valve UP
Y11a		19	•		4K7		7.2	=
Y11b		20	•		6K6	13	7.3	Directional Valve DOWN
Y11b		21	•				7.3	=
Y12		22	•		6K6	43	7.4	Safety Valve
Y12		23	•				7.4	=
Y13		24	•		4K5	22	7.6	Pressure Valve
Y13		25	•				7.6	=
Y75		26	•		CNC	2	7.8	Slow Speed
Y75		27	•		R1	A2	7.8	=

10

12

Date	08. May. 2006	APH		X2				
Editor	AAA							
Tested	08. May. 2006							
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.		

APH. C421L00

terminal diagram

WUPK007E 01.03.1994

terminal strip designation X2

Destination	Conn.	No.	Jumper	PLC	Destination	Conn.	Page/path	Path designation / functions	
S11a		28				8.3	Control Retract		
S11a		30						8.3	=
S11a		29			3	XPS-PVT	3	8.3	=
S11b		31				4S6	_1	8.2	Control Down
S11b		33				4S6	_3	8.2	=
S11b		32			1	XPS-PVT	1	8.2	=
S12		34			A1	XPS-PVT	A1	8.3	Control Safety Valve
S12		36						8.4	=
S12		35			5	XPS-PVT	5	8.3	=
PRG920	24VAC	37				2F6	2	2.1.8	Digital
PRG920	24VAC	38			PNOZX2	A2	2.1.8	=	
X1	14	39			PRG920	POS. OK	6.2	POS OK	
6K1	13	40			PRG920	POS. OK	6.2	=	
5S7B	13	41		COM A/I	PRG920	COML/V	5.1.4	Digital	
5S7B	14	42		VELOCE	PRG920	VELOCE	5.1.5	=	
4K5A	31	43		COM IN	PRG920	COMIN	5.1.8	=	
PRG920	STOP	44		STOP	5K3	14	5.1.7	=	
PRG920	INC. C	45		INC. C	4K5A	32	5.1.8	=	
4K4	03	46			5K3	13	5.1.8	=	
PRG920	SCOST	47		SCOST	4K4	04	5.1.8	=	
		48			MUTE	4	4.6	Mute	
		49			4K5A	A2	4.6	=	

11

13

Date	08. May. 2006	APH		X2	=	+			
Editor	AAA								
Tested	08. May. 2006								
Changes	Date	Name	Norm	Original	Sub. f.	Sub. b.	APH. C421L00	P. 12	13 P.

