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Circuit diagram

Customer :
 Plant designation : PA-CONTROL CPU5-servoTEC-LV
 Project number : 1027131

Type : 4 Axes english
 Manufacturing date : 2002
 Incoming supply : 400V/3Ph/50Hz/16A
 Feeding : 5x2,5mm²
 Fuse protection : 16A
 Control voltage : 24V

Created on : 01.10.02 Highest Page No. : 23
 Project leader : A.Pfeiffer
 Last changed : 28.06.05
 Editor : VOL

Editor		Date		Title page	Customer	Drawing-no. IEF	Page no.
Designer:	VOL	01.10.02				1027131	1
Modification:	VOL	28.06.05					
Print:		11.01.07			Final customer	Drawing-no. customer	Pages
System:	Place:			PA-CONTROL CPU5-servoTEC-LV			23

Modification information

WUPB002D 24. 02. 1994

No.	Date	Editor	Modifications	Short name	Page

Editor	Date
Designer: VDL	01. 10. 02
Modification: VDL	28. 06. 05
Print:	11. 01. 07
System:	Place:



Modification information
PA-CONTROL CPU5-servoTEC-LV

Customer
Final customer

Drawing-no. IEF	Drawing-no. customer
1027131	

Page no.	Pages
2	23

Directory

WUPJ0010 24.02.1994

Page	Page description	Additional page field	Date	Editor
1	Title page		28.06.2005	VOL
2	Modification information		28.06.2005	VOL
3	Directory		28.06.2005	VOL
4	PAC interface connection CPU 5 axis A1		28.06.2005	VOL
5	PA-Control servoTEC power supply I/O axis A1		28.06.2005	VOL
6	PA-Control servoTEC I1-I8 axis A1		28.06.2005	VOL
7	PA-Control servoTEC 01-05 axis A1		28.06.2005	VOL
8	Axis A1 servo amplifier 1 supply voltage		28.06.2005	VOL
9	Axis A1 servo amplifier 1 motor connection		28.06.2005	VOL
10	Axis A1 servo amplifier 1		28.06.2005	VOL
11	Axis A2 servo amplifier 2 CANOpen connection		28.06.2005	VOL
12	Axis A2 servo amplifier 2 supply voltage		28.06.2005	VOL
13	Axis A2 servo amplifier 2 motor connection		28.06.2005	VOL
14	Axis A2 servo amplifier 2		28.06.2005	VOL
15	Axis A3 servo amplifier 3 CANOpen connection		28.06.2005	VOL
16	Axis A3 servo amplifier 3 supply voltage		28.06.2005	VOL
17	Axis A3 servo amplifier 3 motor connection		28.06.2005	VOL
18	Axis A3 servo amplifier 3		28.06.2005	VOL
19	Axis A4 servo amplifier 4 CANOpen connection		28.06.2005	VOL
20	Axis A4 servo amplifier 4 supply voltage		28.06.2005	VOL
21	Axis A4 servo amplifier 4 motor connection		28.06.2005	VOL
22	Axis A4 servo amplifier 4		28.06.2005	VOL
23	Axis limit switch Axis 1-4		28.06.2005	VOL

Editor	Date
Designer: VOL	01.10.02
Modification: VOL	28.06.05
Print:	11.01.07
System:	Place:



Directory
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	3
Final customer	Drawing-no. customer	Pages
		23

-A01.20
5.02

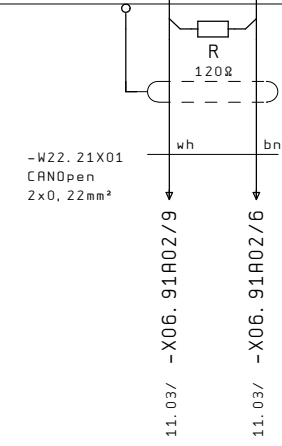
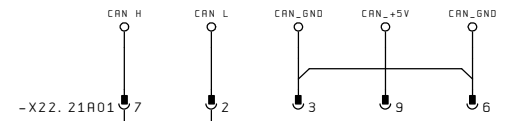
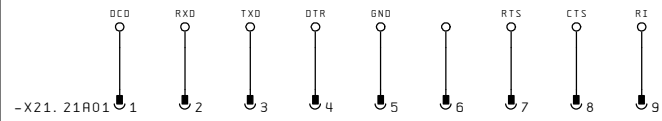
PA - CONTROL servoTEC


-A01.21
5.02

Diagnostics interface

CPU 5

CAN interface



Editor		Date	
Designer:	VOL	01.10.02	
Modification:	VOL	28.06.05	
Print:		11.01.07	
System:	Place:		

PAC interface connection
CPU 5
axis A1
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		23

-A01. 20
4. 02

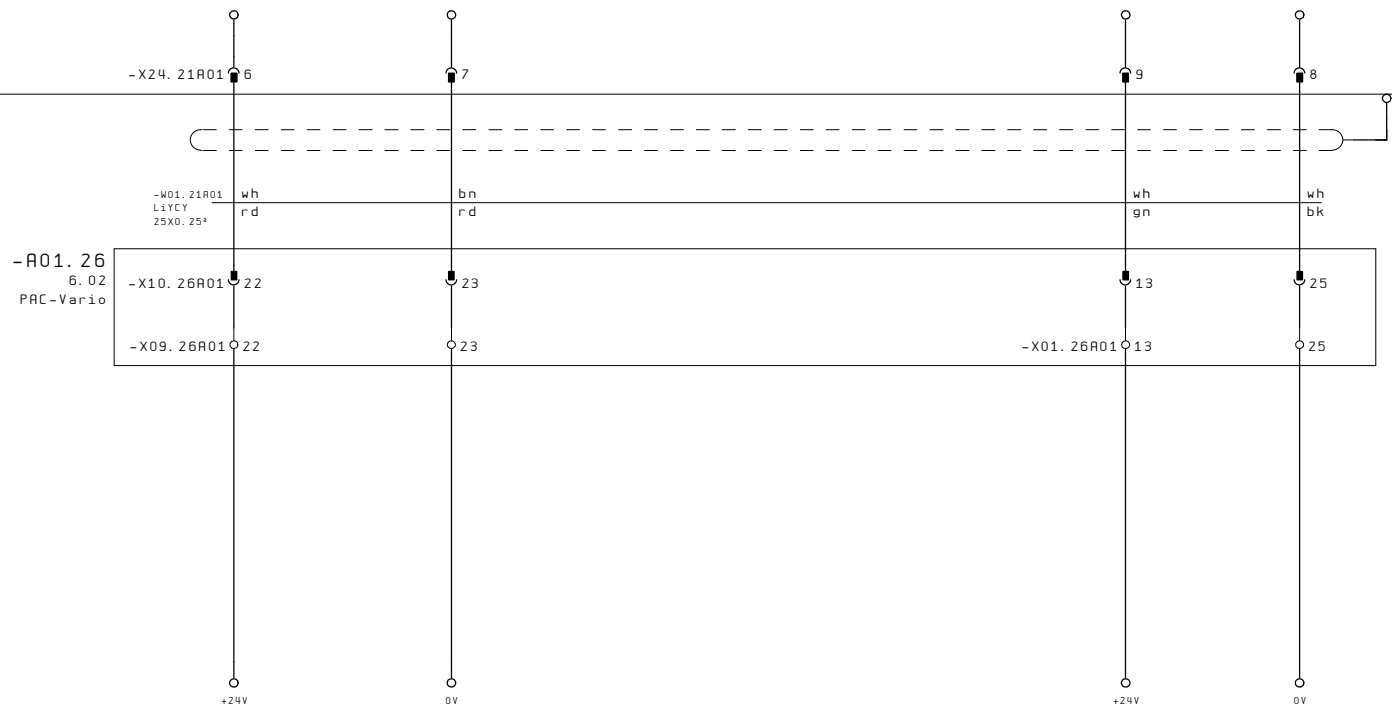
PA - CONTROL servoTEC

-A01. 21
4. 02

I/O CPU 5


Pin 6: 24VIO
Pin 7: GND-IO

Pin 8: GND-CPU
Pin 9: 24V-CPU



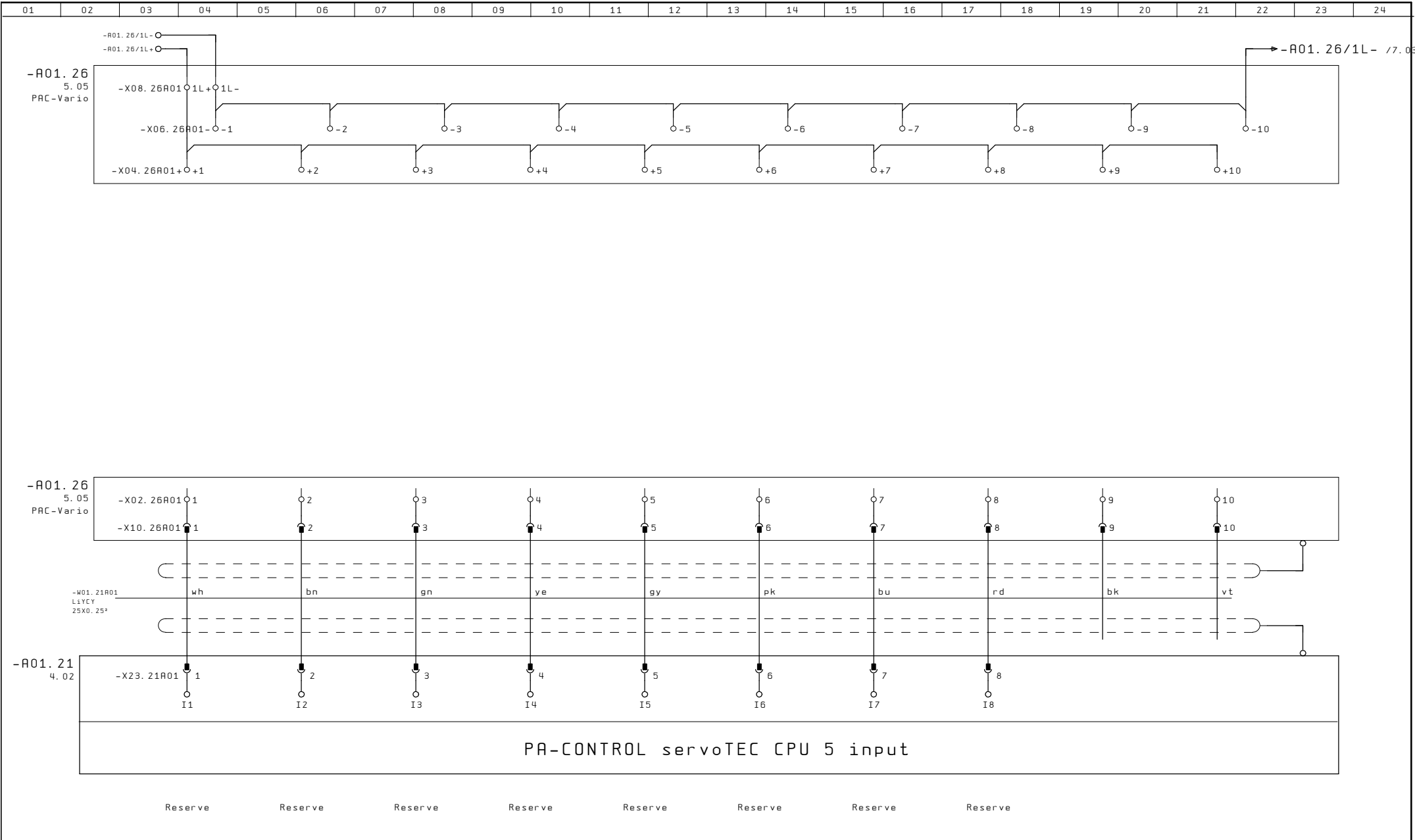
IO supply

CPU supply

Editor		Date	
Designer:	VOL	01.10.02	
Modification:	VOL	28.06.05	
Print:		11.01.07	
System:	Place:		

PA-Control servoTEC
power supply I/O axis
A1
PA-CONTROL CPU5-servoTEC-LV

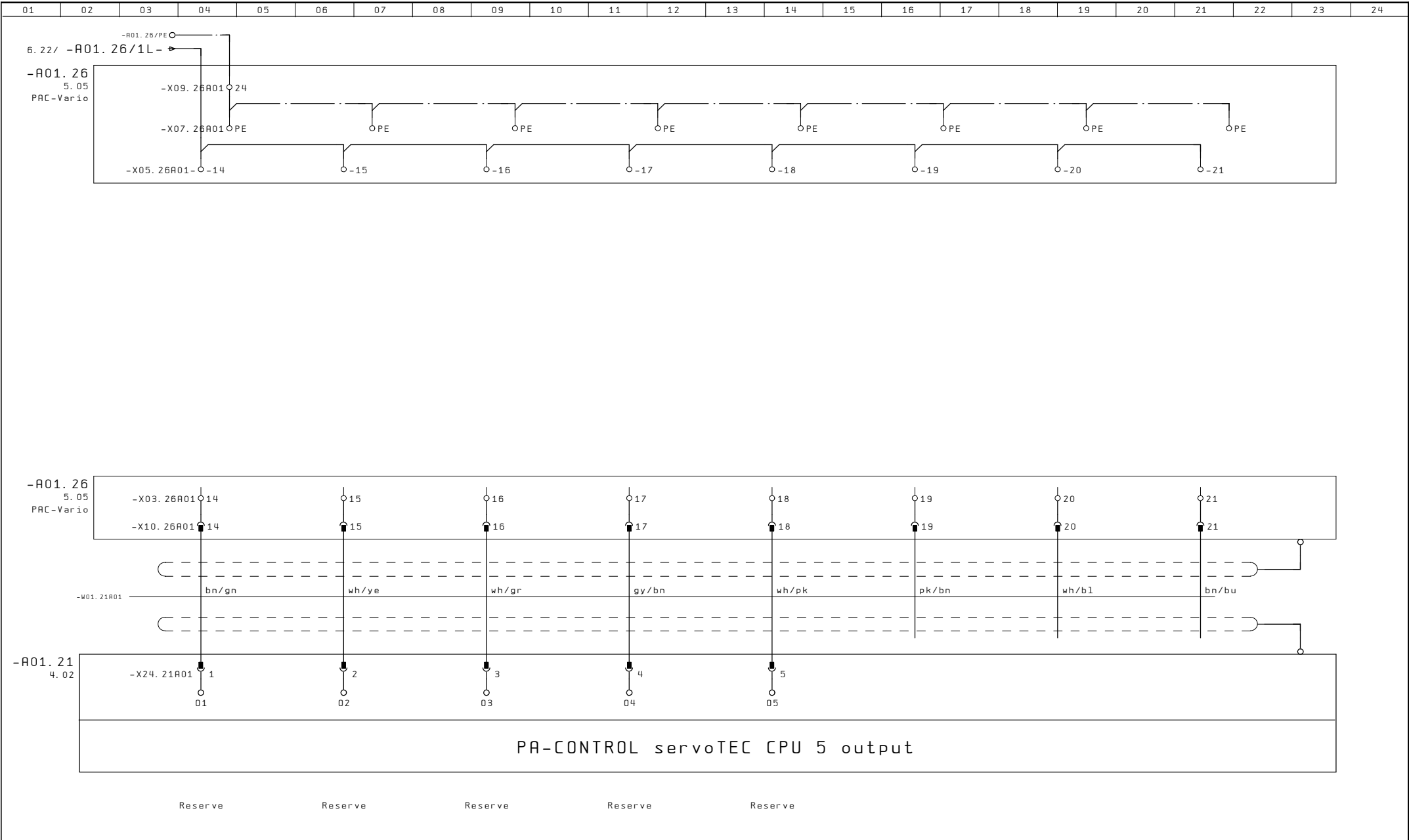
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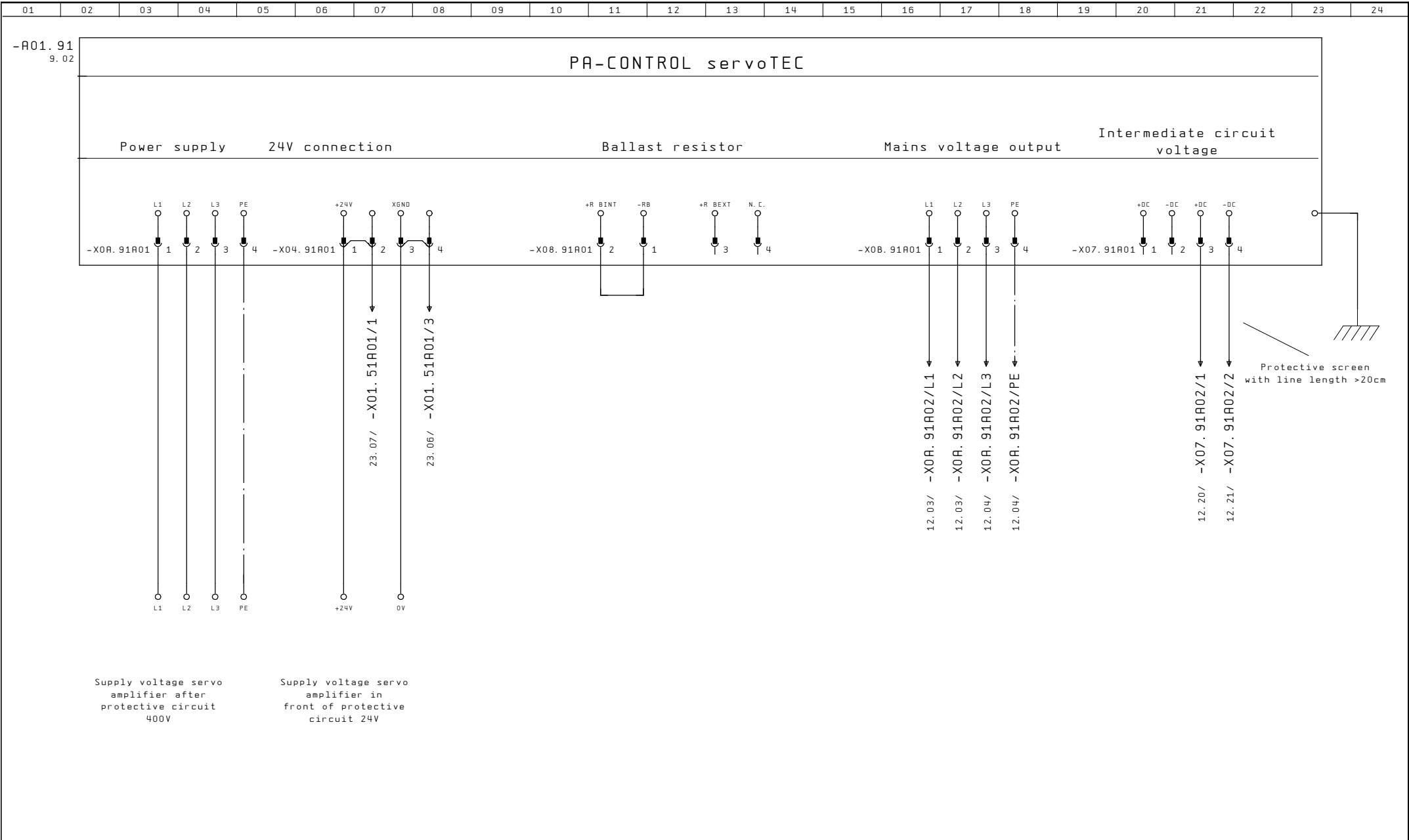
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Designer: VOL	01.10.02	
Modification: VOL	28.06.05	
Print:	11.01.07	
System:	Place:	

PA-Control servoTEC
I1-I8
axis A1
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	6
Final customer	Drawing-no. customer	Pages
		23



Editor	Date		PA-Control servoTEC	Customer	Drawing-no. IEF	Page no.
Designer:	VDL 01.10.02		01-05		1027131	7
Modification:	VDL 28.06.05		axis A1	Final customer	Drawing-no. customer	Pages
Print:	11.01.07		PA-CONTROL CPU5-servoTEC-LV			23
System:	Place:					



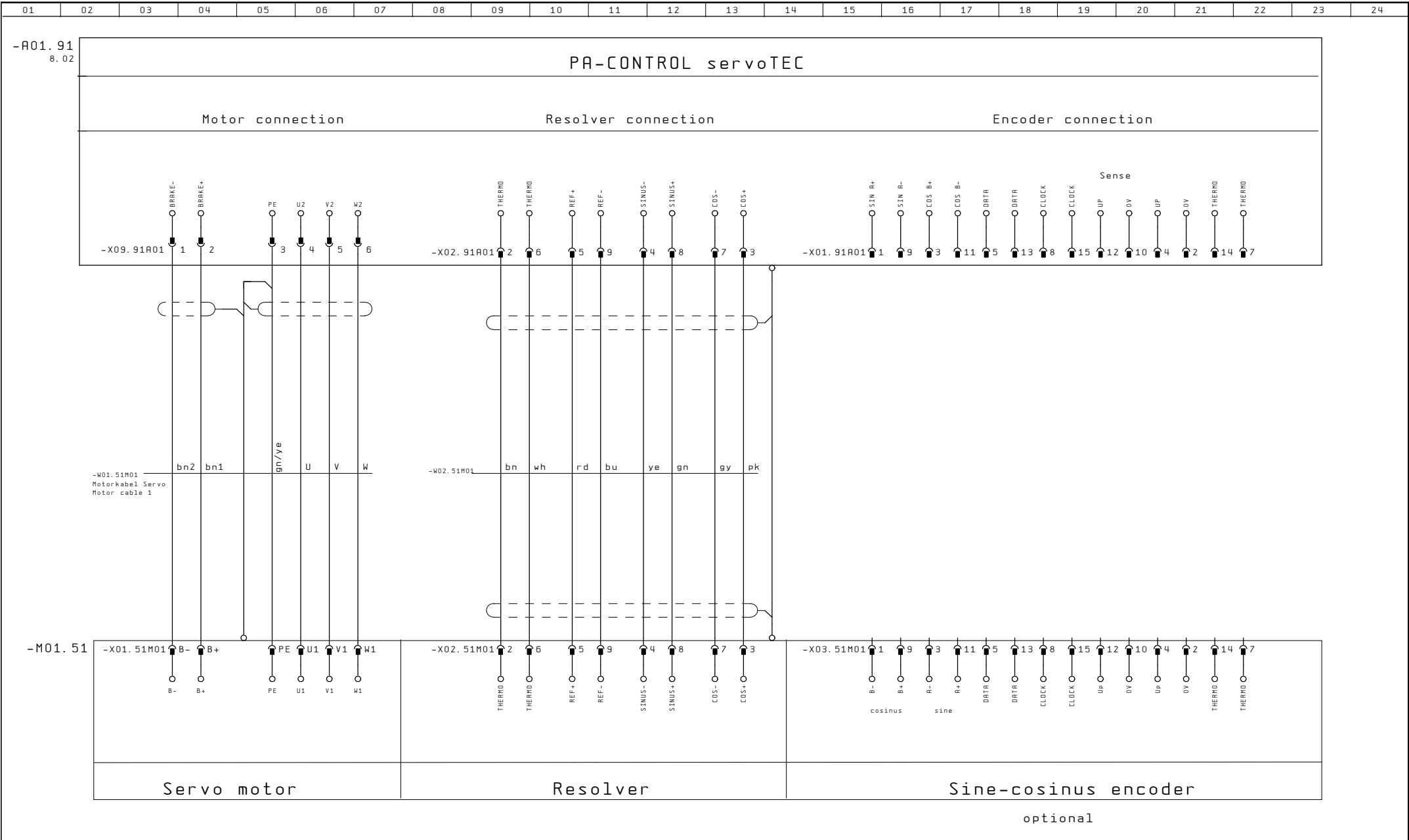
Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A1 servo amplifier 1
supply voltage

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		23

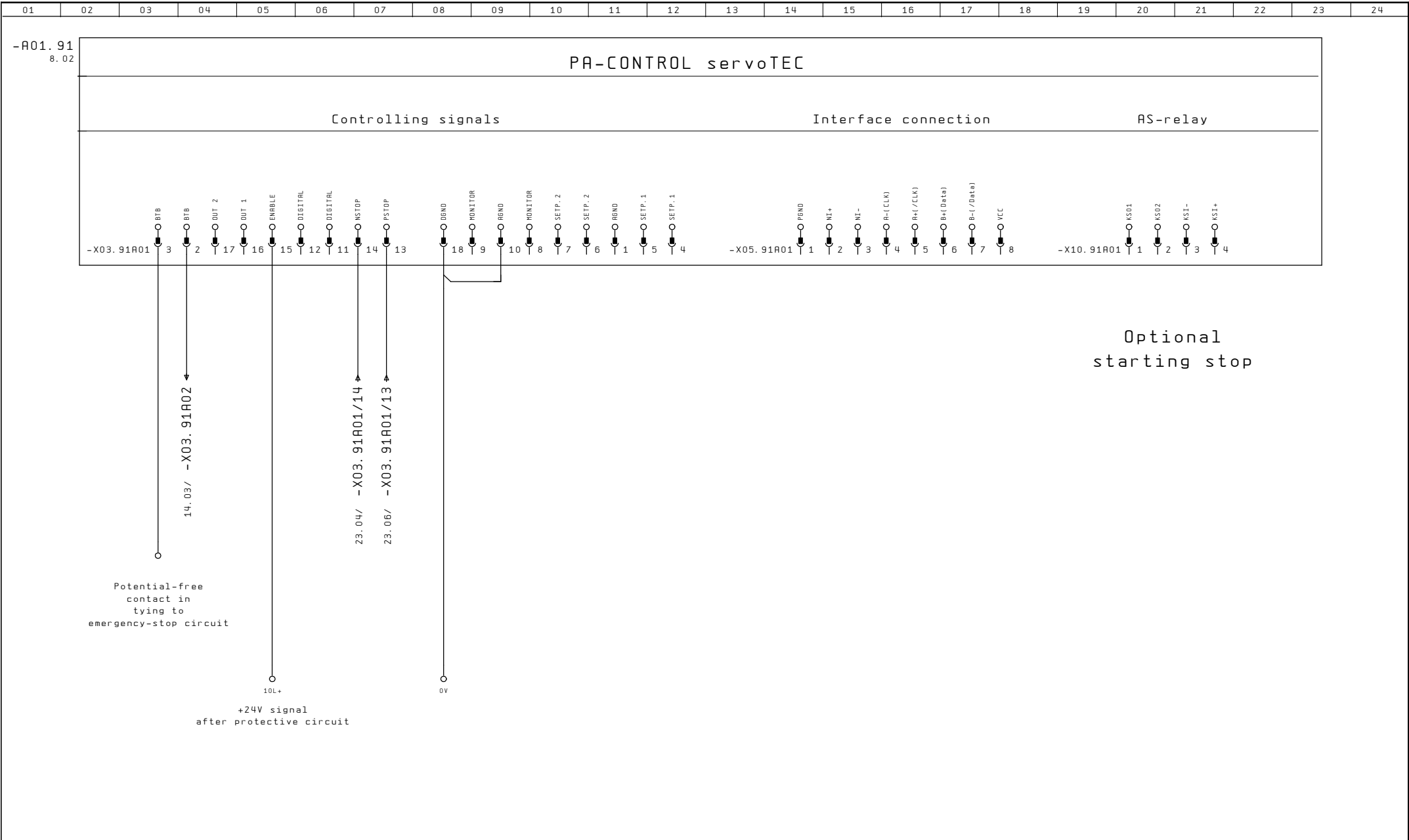


Editor	Date	
Designer:	VOL 01.10.02	
Modification:	VOL 28.06.05	
Print:	11.01.07	
System:	Place:	

Axis A1 servo amplifier 1
motor connection

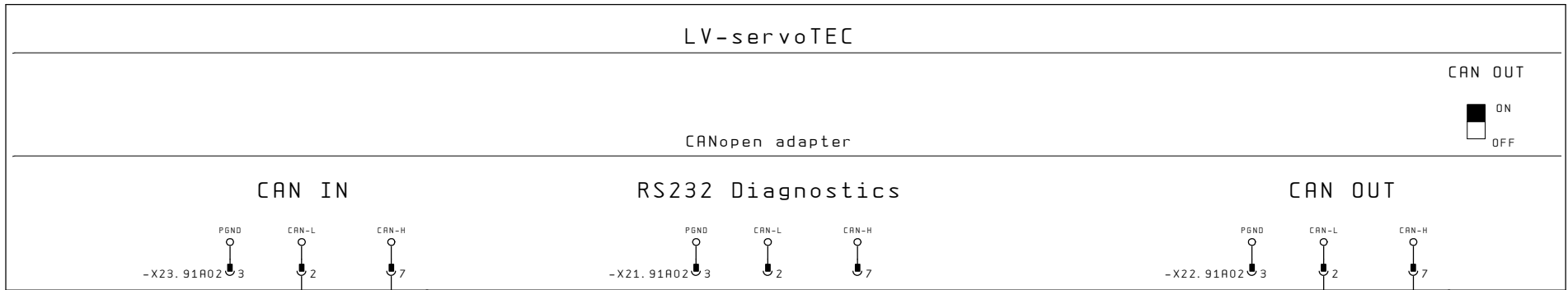
PA-CONTROL CPU5-servoTEC-LV

Customer		Drawing-no. IEF	Page no.
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Final customer		Drawing-no. customer	Pages
			23



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Designer:	VOL 01.10.02		<p style="font-weight: bold; font-size: 1.2em;">WERNER</p>	PA-CONTROL CPU5-servoTEC-LV		1027131	10
Modification:	VOL 28.06.05				Final customer	Drawing-no. customer	Pages
Print:	11.01.07						23
System:	Place:						

-A02. 91
12. 02



-W23. 91A02
CANOpen
2x0, 22mm²

4. 19/ -X06. 91A02/6

4. 18/ -X06. 91A02/9

-W22. 91A02
CANOpen
2x0, 22mm²

-X06. 91A03/9 /15.03

-X06. 91A03/6 /15.03

Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	

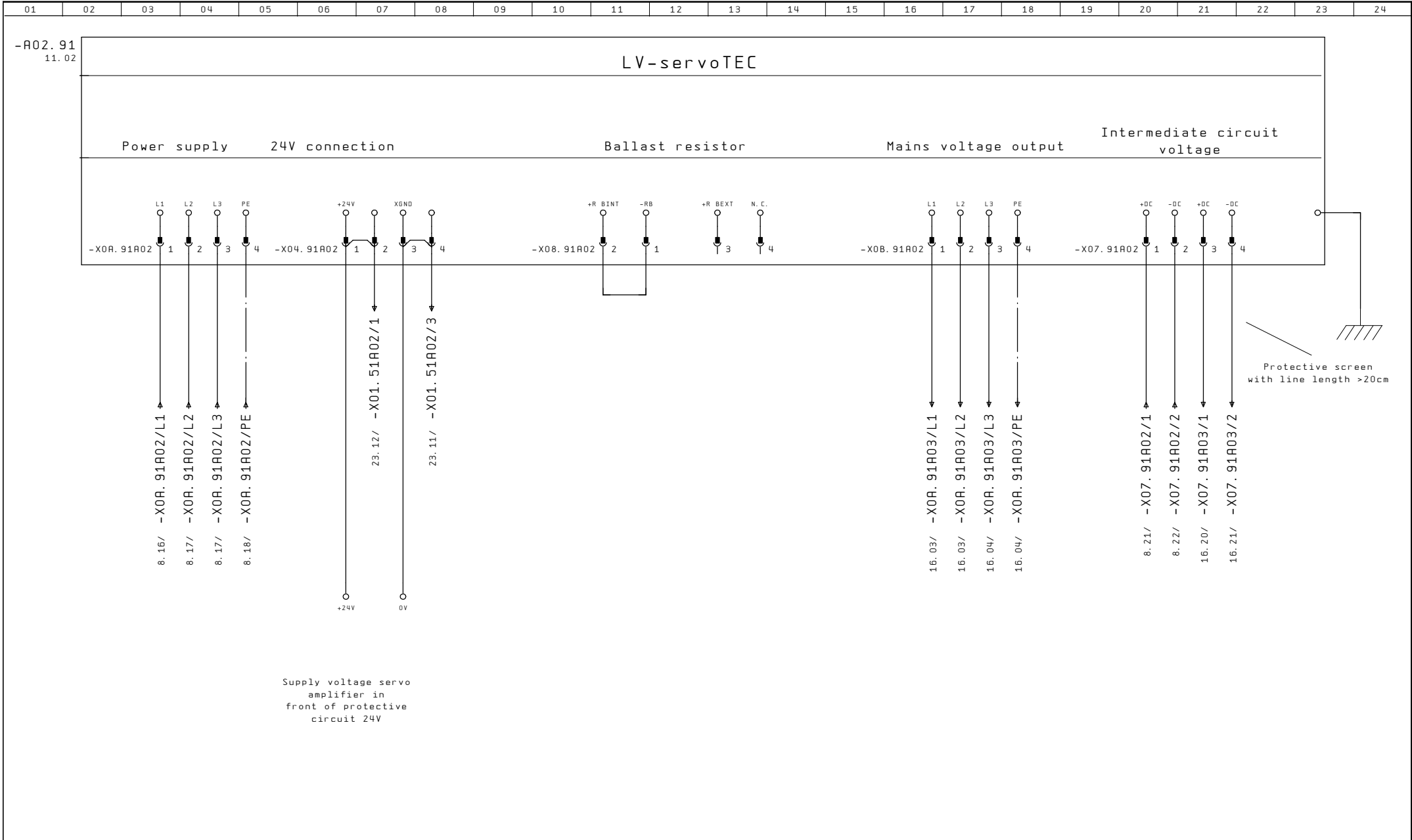


Axis A2 servo amplifier 2
CANOpen connection
PA-CONTROL CPU5-servoTEC-LV

Customer	
Final customer	

Drawing-no. IEF	1027131
Drawing-no. customer	

Page no.	11
Pages	23



Editor		Date	
Designer:	VOL	01.10.02	
Modification:	VOL	28.06.05	
Print:		11.01.07	
System:	Place:		

Axis A2 servo amplifier 2
supply voltage

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		23

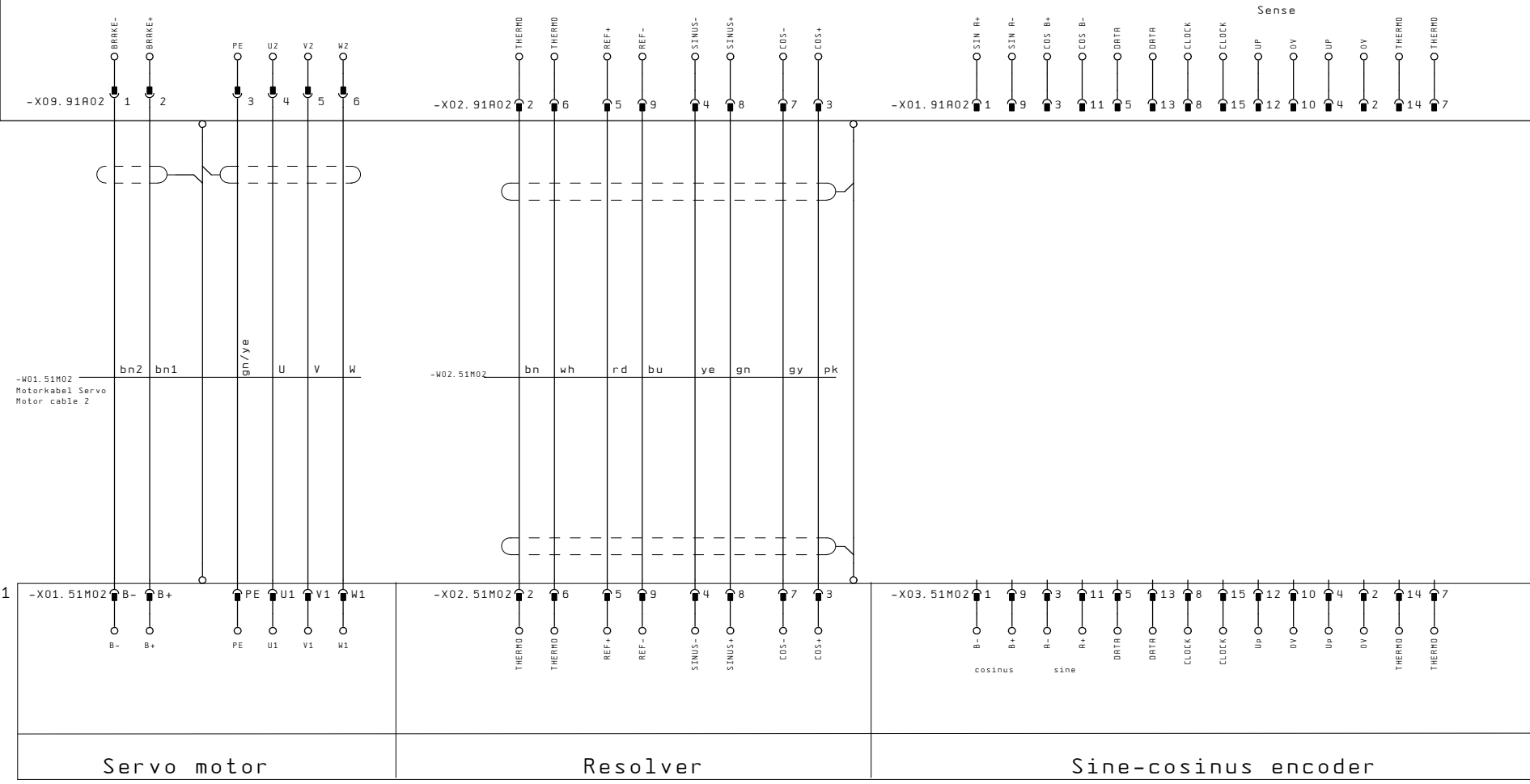
-A02. 91
12.02

LV-servoTEC

Motor connection

Resolver connection

Encoder connection



-M02. 51

Editor	Date	
Designer: VOL	01.10.02	
Modification: VOL	28.06.05	
Print:	11.01.07	
System:	Place:	

Axis A2 servo amplifier 2
motor connection

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	13
Final customer	Drawing-no. customer	Pages
		23

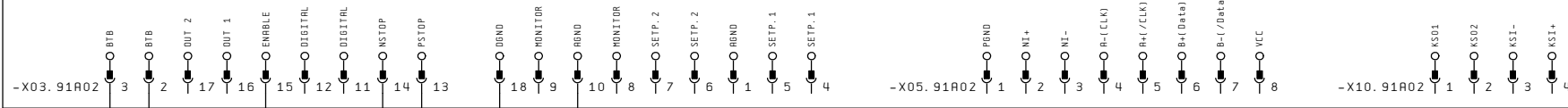
-A02. 91
12. 02

LV-servoTEC

Controlling signals

Interface connection

AS-relay



10. 03/ -X03. 91A02

18. 03/ -X03. 91A03

23. 09/ -X03. 91A02/14

23. 11/ -X03. 91A02/13

10L+

+24V signal
after protective circuit

0V

Optional
starting stop

Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A2 servo amplifier 2
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	14
Final customer	Drawing-no. customer	Pages
		23

-A03. 91
16. 02

LV-servoTEC

CAN OUT

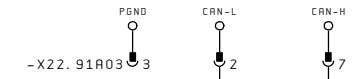
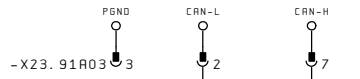


CANopen adapter

CAN IN

RS232 Diagnostics

CAN OUT



-W23. 91A03
CANOpen
2x0, 22mm²

-W22. 91A03
CANOpen
2x0, 22mm²

11. 21/ -X06. 91A03/6

11. 21/ -X06. 91A03/9

-X06. 91A04/9 /19. 03

-X06. 91A04/6 /19. 03

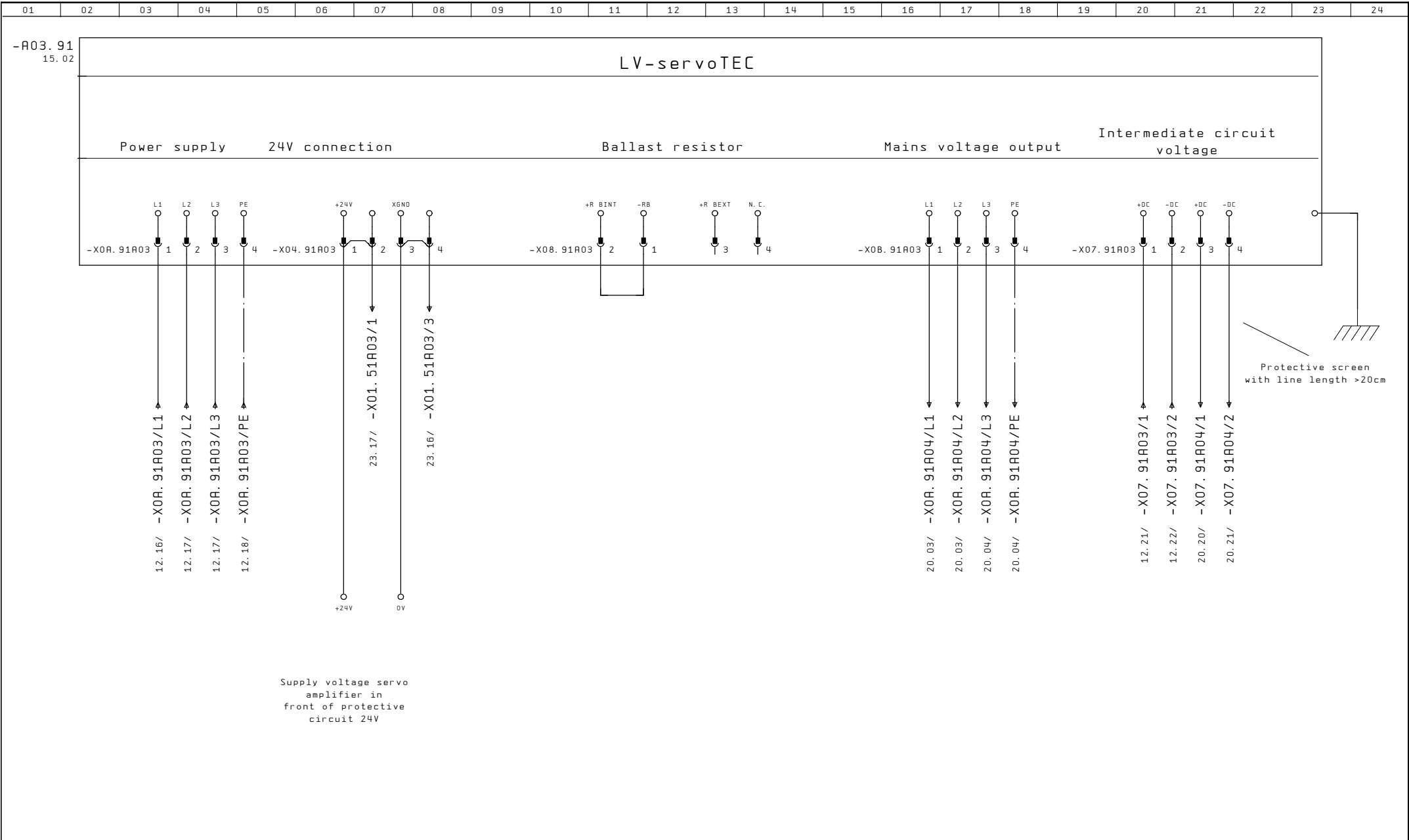
Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A3 servo amplifier 3
CANOpen connection

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	15
Final customer	Drawing-no. customer	Pages
		23



Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	

Axis A3 servo amplifier 3
supply voltage

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		23

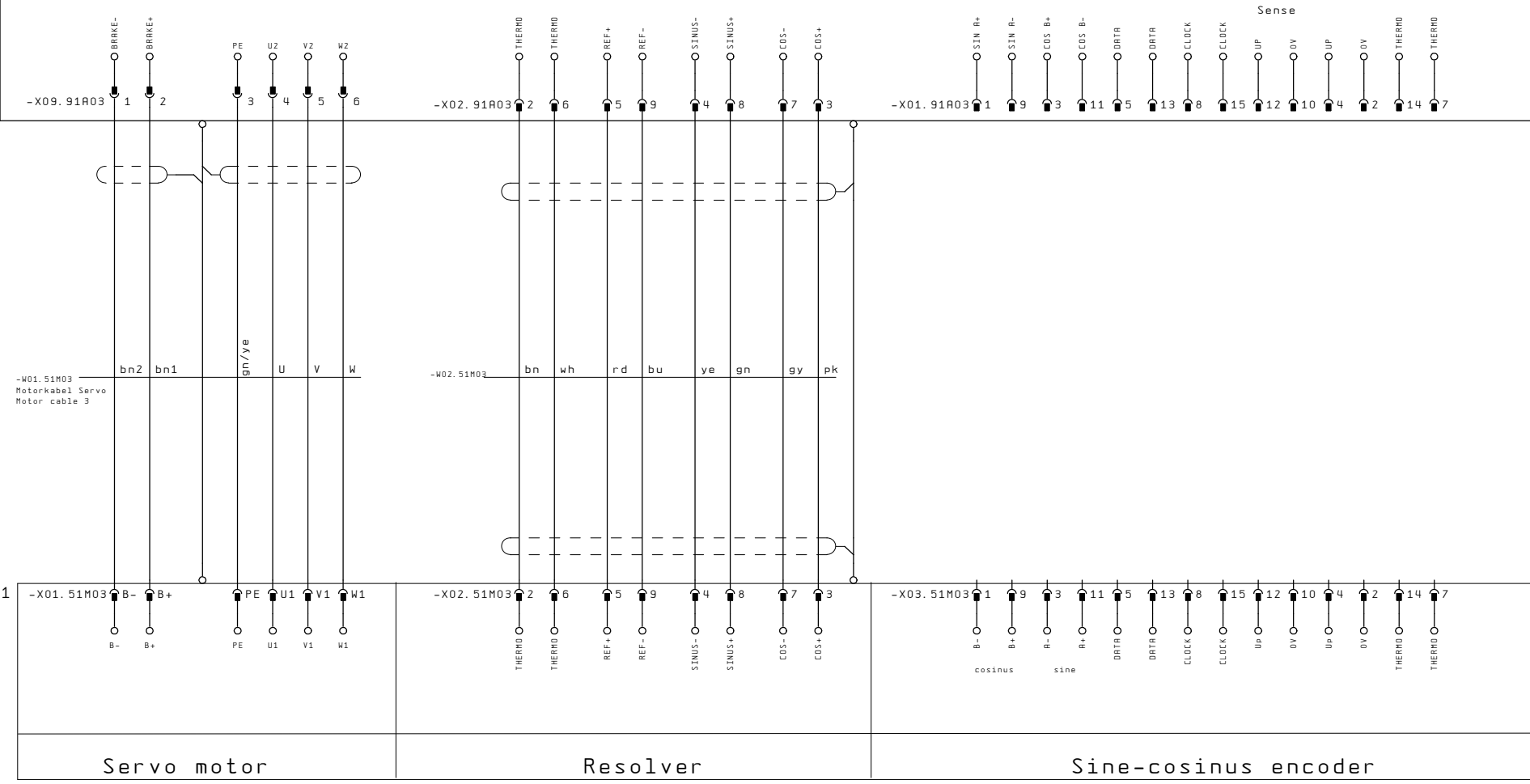
-A03. 91
16. 02

LV-servoTEC

Motor connection

Resolver connection

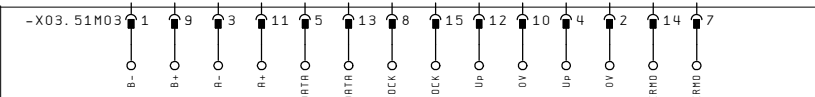
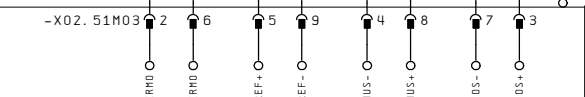
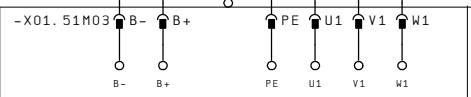
Encoder connection



-W01. 51M03
Motorkabel Servo
Motor cable 3

-W02. 51M02

-M03. 51



Servo motor

Resolver

Sine-cosinus encoder

optional

Editor	Date	
Designer: VOL	01.10.02	
Modification: VOL	28.06.05	
Print:	11.01.07	
System:	Place:	

Axis A3 servo amplifier 3
motor connection
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		23

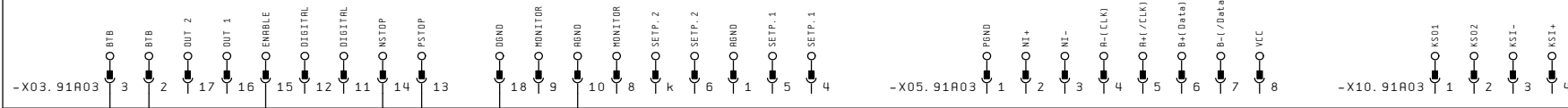
-A03. 91
16. 02

LV-servoTEC

Controlling signals

Interface connection

AS-relay



14. 03/ -X03. 91A03

22. 03/ -X03. 91A04

23. 14/ -X03. 91A03/14

23. 16/ -X03. 91A03/13

10L+

+24V signal
after protective circuit

0V

Optional
starting stop

Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	

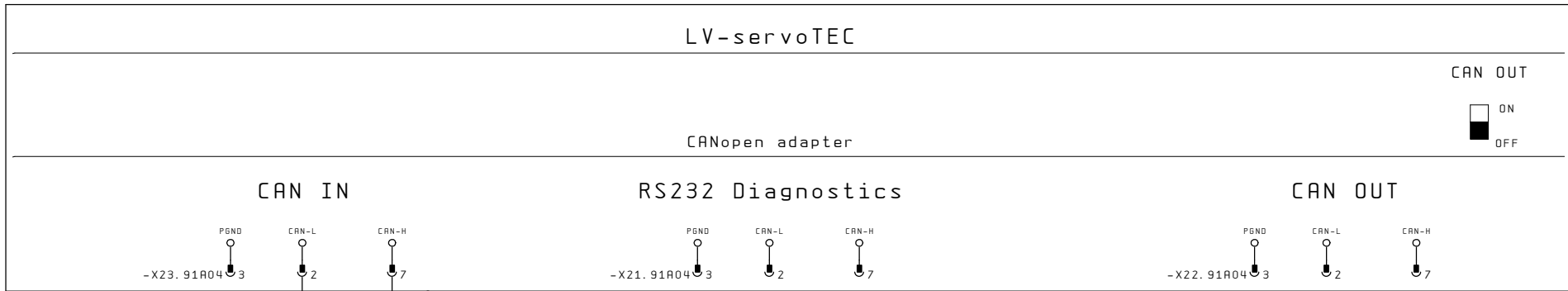


Axis A3 servo amplifier 3

PA-CONTROL CPU5-servoTEC-LV


Customer	Drawing-no. IEF	Page no.
	1027131	18
Final customer	Drawing-no. customer	Pages
		23

-A04. 91
20. 02



15. 21/ -X06. 91A04/6

15. 21/ -X06. 91A04/9

Editor		Date	
Designer:	VOL	01.10.02	
Modification:	VOL	28.06.05	
Print:		11.01.07	
System:	Place:		

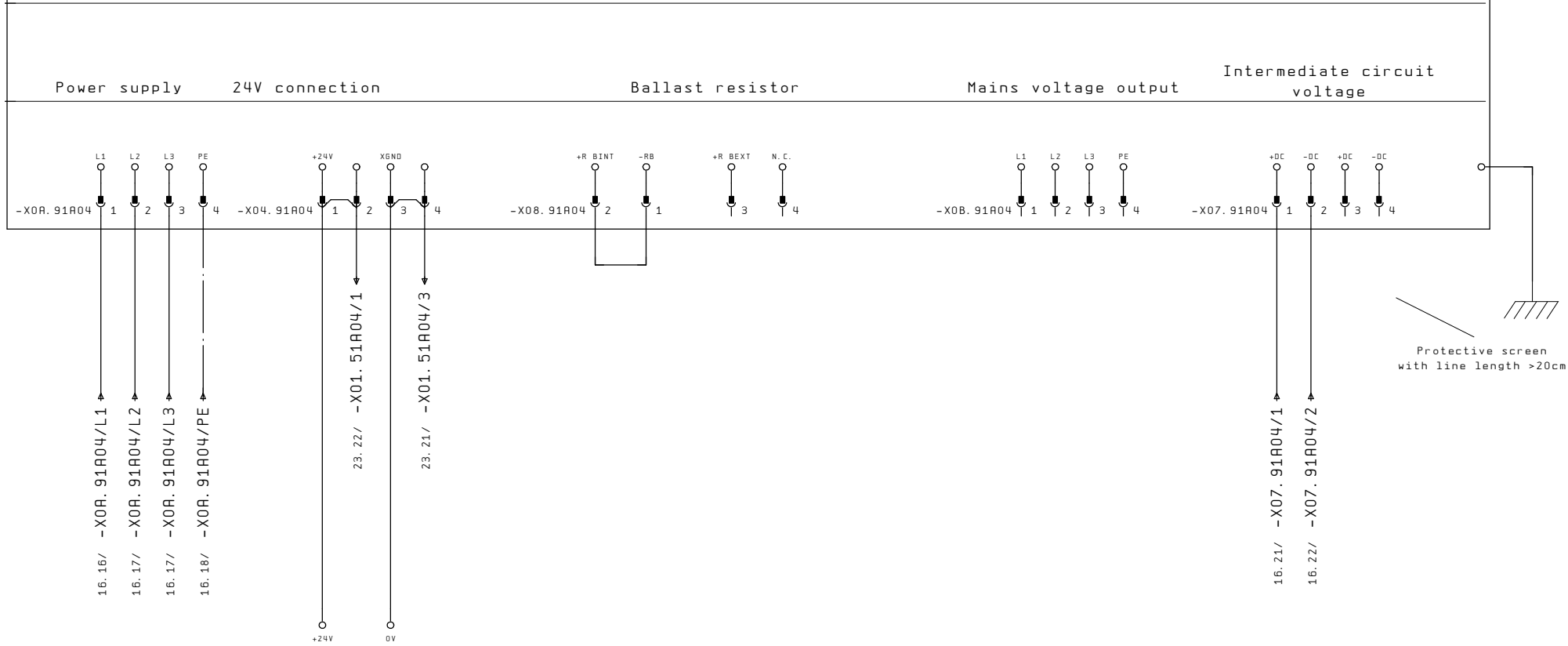
Axis A4 servo amplifier 4
CANopen connection

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	19
Final customer	Drawing-no. customer	Pages
		23

-A04. 91
19. 02

LV-servoTEC



Supply voltage servo amplifier in front of protective circuit 24V

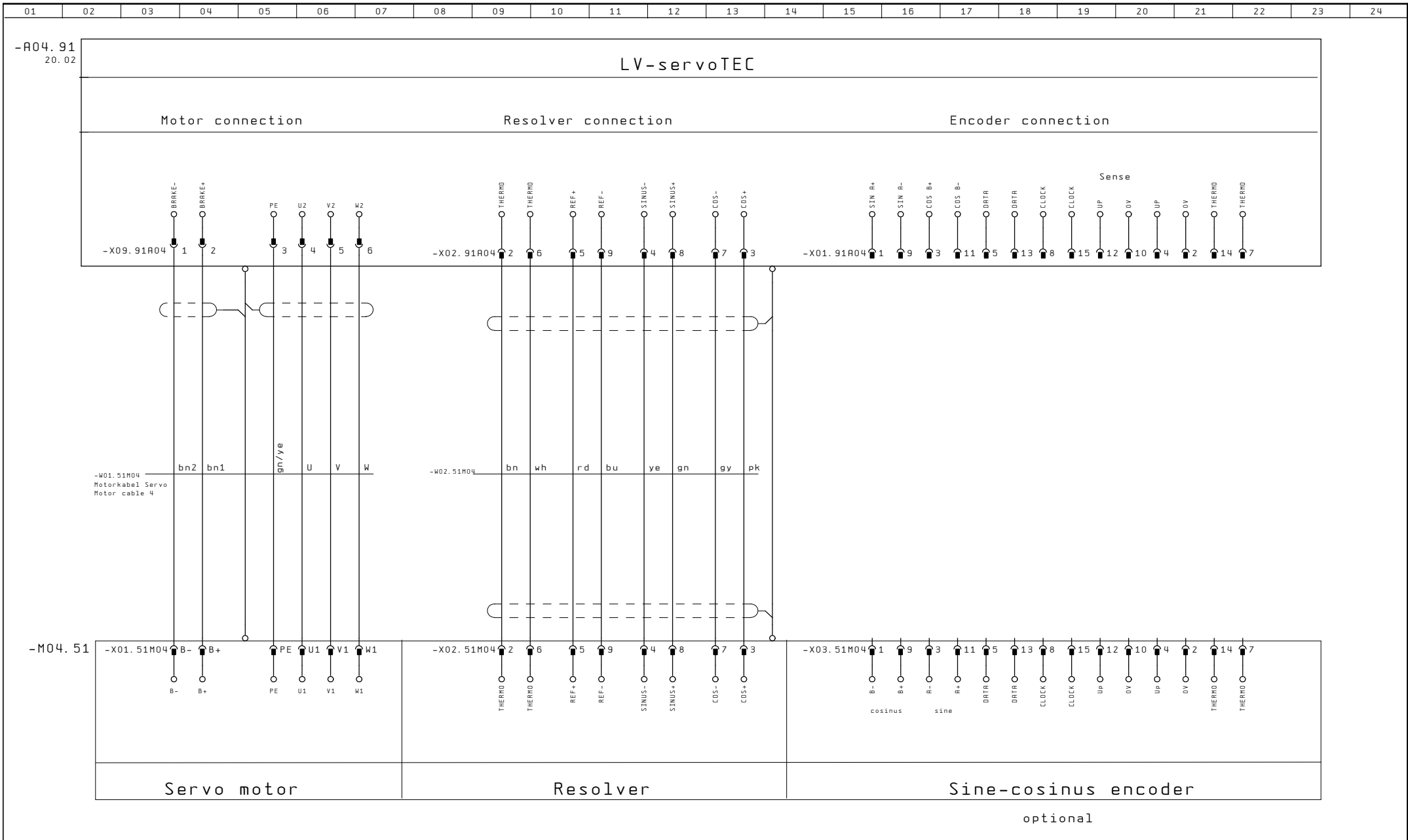
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Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A4 servo amplifier 4 supply voltage

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	20
Final customer	Drawing-no. customer	Pages
		23



Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A4 servo amplifier 4
motor connection

PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	21
Final customer	Drawing-no. customer	Pages
		23

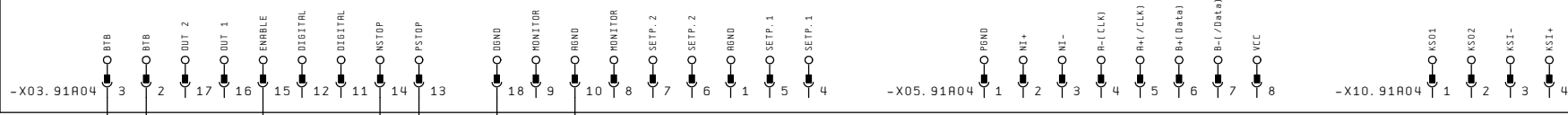
-A04. 91
20. 02

LV-servoTEC

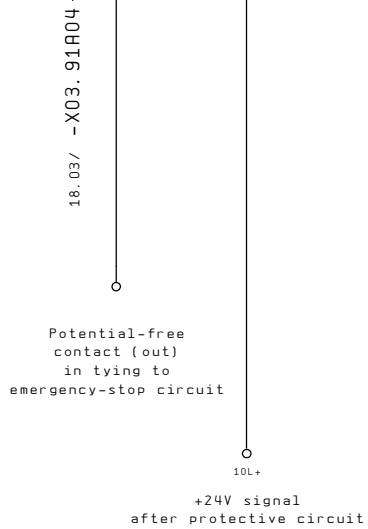
Controlling signals

Interface connection

AS-relay



Optional
starting stop

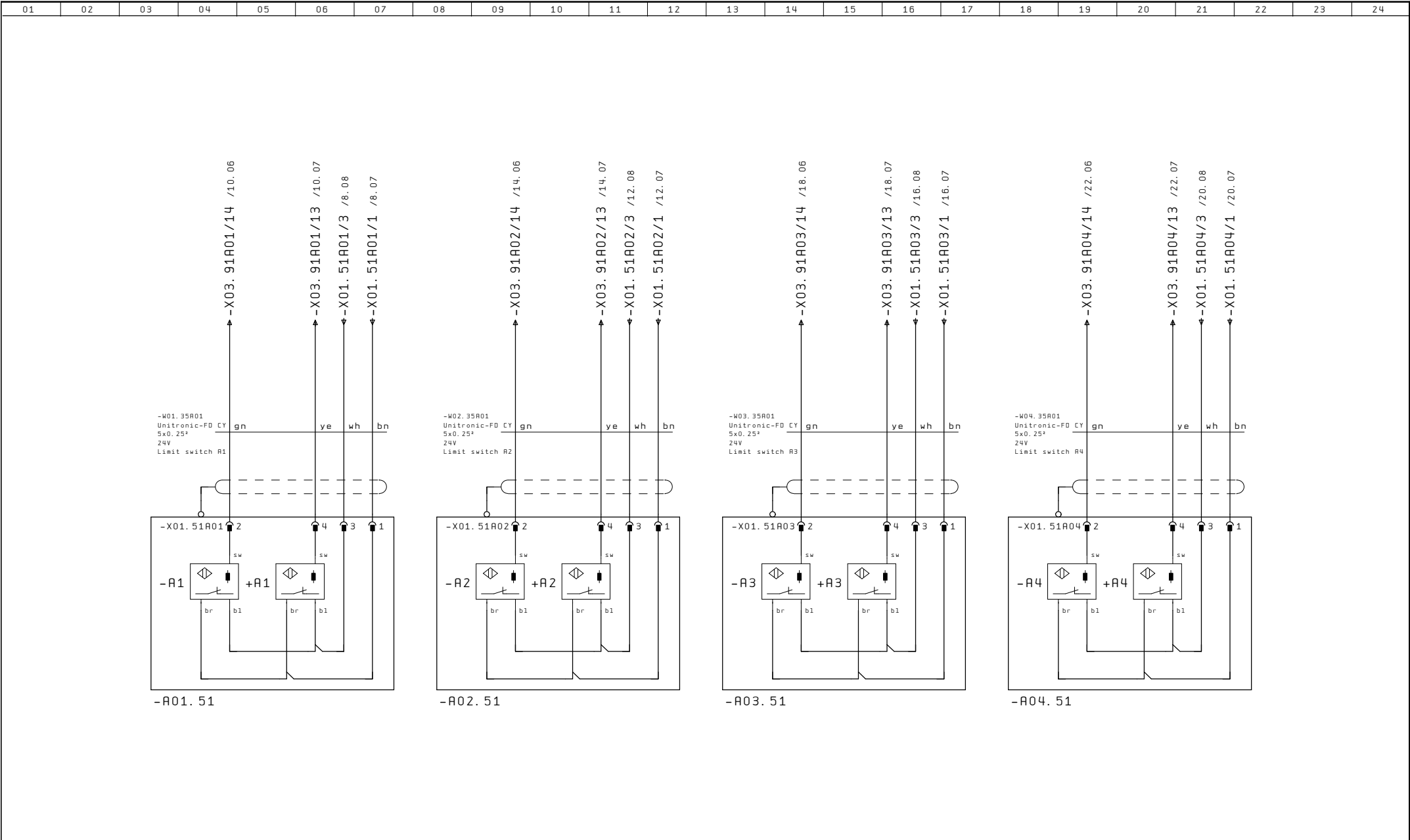


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Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis A4 servo amplifier 4
PA-CONTROL CPU5-servoTEC-LV

Customer	Drawing-no. IEF	Page no.
	1027131	22
Final customer	Drawing-no. customer	Pages
		23



Editor		Date
Designer:	VOL	01.10.02
Modification:	VOL	28.06.05
Print:		11.01.07
System:	Place:	



Axis limit switch
Axis 1-4
PA-CONTROL CPU5-servoTEC-LV

Customer	
Final customer	

Drawing-no. IEF	1027131
Drawing-no. customer	

Page no.	23
Pages	23