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## Circuit diagram

Customer :  
 Plant designation : PA-CONTROL CPU4-LVservoTEC  
 Project number : 1027133

Type : 4 Axes english  
 Manufacturing date : 2002  
 Incoming supply : 400V/3Ph/50Hz/16A  
 Feeding : 5x2,5mm<sup>2</sup>  
 Fuse protection : 16A  
 Control voltage : 24V

Created on : 26.02.02 Highest Page No. : 27  
 Project leader : A.Pfeiffer  
 Last changed : 28.06.05  
 Editor : VOL


Editor		Date		Title page	Customer	Drawing-no. IEF	Page no.
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Modification:	VOL	28.06.05			Final customer	Drawing-no. customer	Pages
Print:		11.01.07					27
System:	Place:			PA-CONTROL CPU4-LVservoTEC			

# Modification information

WUPB002D 24. 02. 1994

No.	Date	Editor	Modifications	Short name	Page

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**WERNER**

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# Directory

WUPJ0010 24.02.1994

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5	PA-CONTROL Interface connection		28.06.2005	VOL
6	Power supply PAC I/O-card		28.06.2005	VOL
7	PAC Inputs I1-I8		28.06.2005	VOL
8	PAC Inputs I9-I16		28.06.2005	VOL
9	PAC Outputs O1-O8		28.06.2005	VOL
10	PAC Outputs O9-O16		28.06.2005	VOL
11	Axis a1 servo amplifier 1 canopen connection		28.06.2005	VOL
12	Axis A1 servo amplifier 1 supply voltage		28.06.2005	VOL
13	Axis A1 servo amplifier 1 motor connection		28.06.2005	VOL
14	Axis A1 servo amplifier 1		28.06.2005	VOL
15	Axis A2 servo amplifier 2 CANOpen connection		28.06.2005	VOL
16	Axis A2 servo amplifier 2 supply voltage		28.06.2005	VOL
17	Axis A2 servo amplifier 2 motor connection		28.06.2005	VOL
18	Axis A2 servo amplifier 2		28.06.2005	VOL
19	Axis A3 servo amplifier 3 CANOpen connection		28.06.2005	VOL
20	Axis A3 servo amplifier 3 supply voltage		28.06.2005	VOL
21	Axis A3 servo amplifier 3 motor connection		28.06.2005	VOL
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23	Axis A4 servo amplifier 4 CANOpen connection		28.06.2005	VOL
24	Axis A4 servo amplifier 4 supply voltage		28.06.2005	VOL
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26	Axis A4 servo amplifier 4		28.06.2005	VOL
27	Axis limit switch Axis 1-4		28.06.2005	VOL

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Directory  
PA-CONTROL CPU4-LVservoTEC

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		27

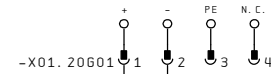
-R01.20  
5.02

# PA-CONTROL

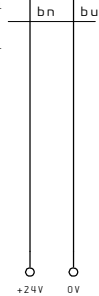
-G01.20

NT8

( X1.3 )  
24V IN



-W01.20601  
3X0.5²  
24V  
PA-CONTROL



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PA-CONTROL CPU-Power supply

PA-CONTROL CPU4-LVservoTEC

Customer	
Final customer	

Drawing-no. IEF	1027133
Drawing-no. customer	

Page no.	4
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-A01. 20  
4. 02

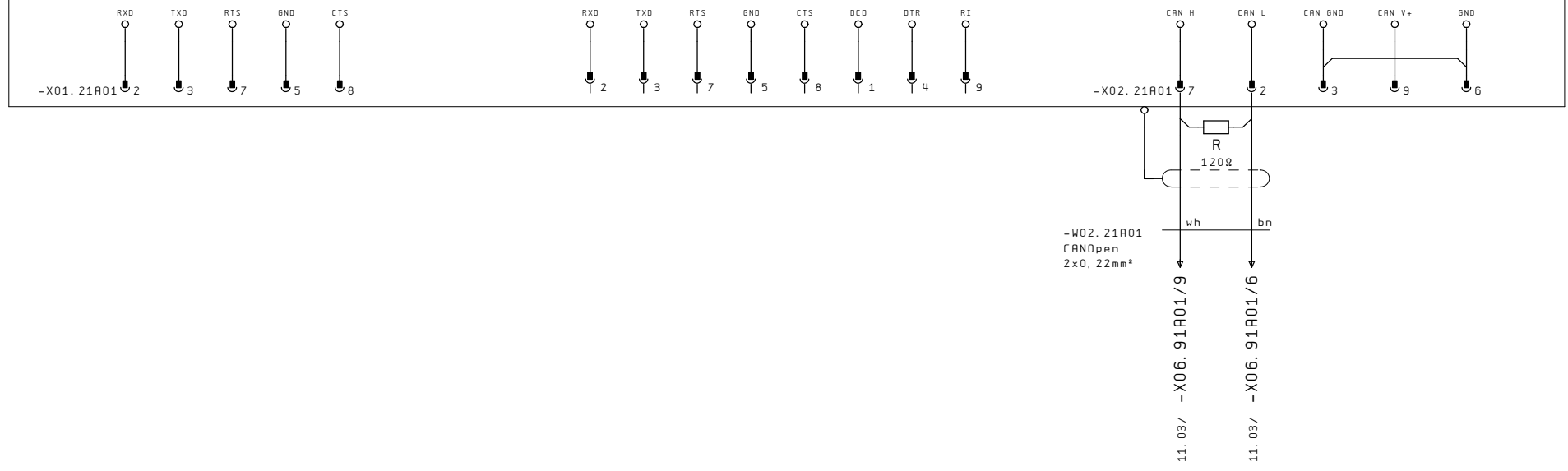
# PA-CONTROL


-A01. 21

( X1)  
COM1 Interface

CPU 4

( X2)  
CAN Interface



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PA-CONTROL  
Interface connection

PA-CONTROL CPU4-LVservoTEC

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
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-A01. 20  
4. 02

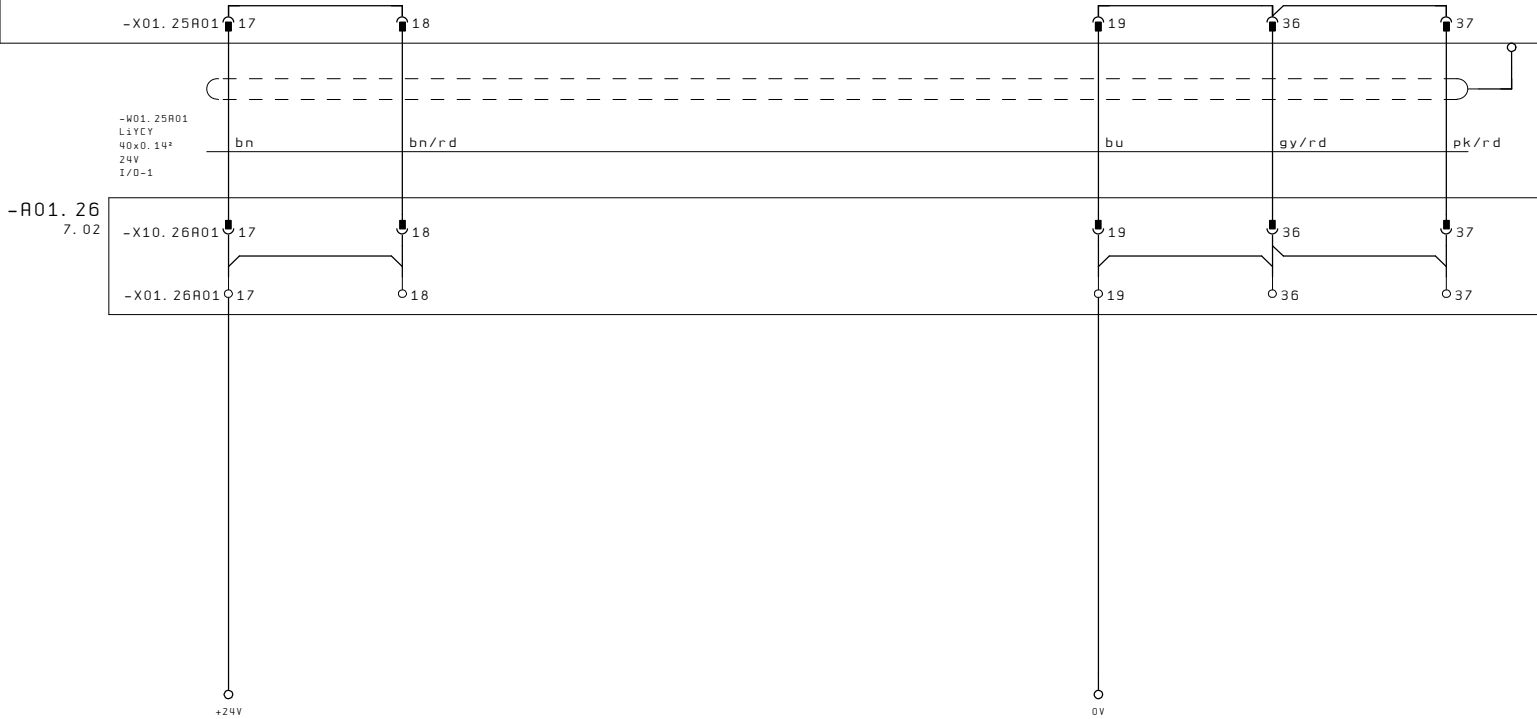
# PA-CONTROL


-A01. 25  
7. 02

## PAC I/O-card 1

Pin 17: +24V for In-Outputs  
Pin 18: +24V for In-Outputs

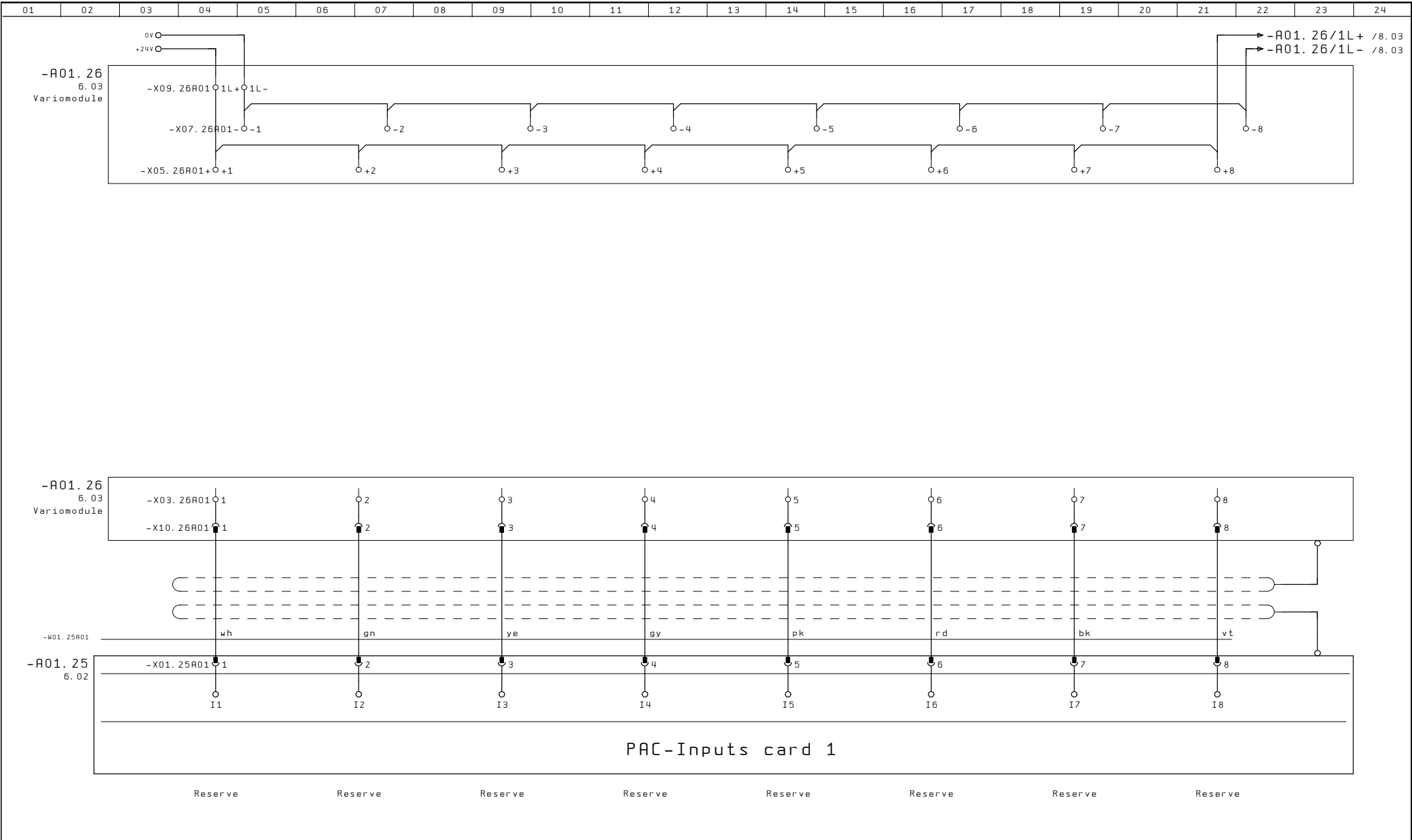
Pin 19: Mass 24V (GND)  
Pin 36: Mass 24V (GND)  
Pin 37: Mass 24V (GND)



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Power supply PAC  
I/O-card  
  
PA-CONTROL CPU4-LVservoTEC

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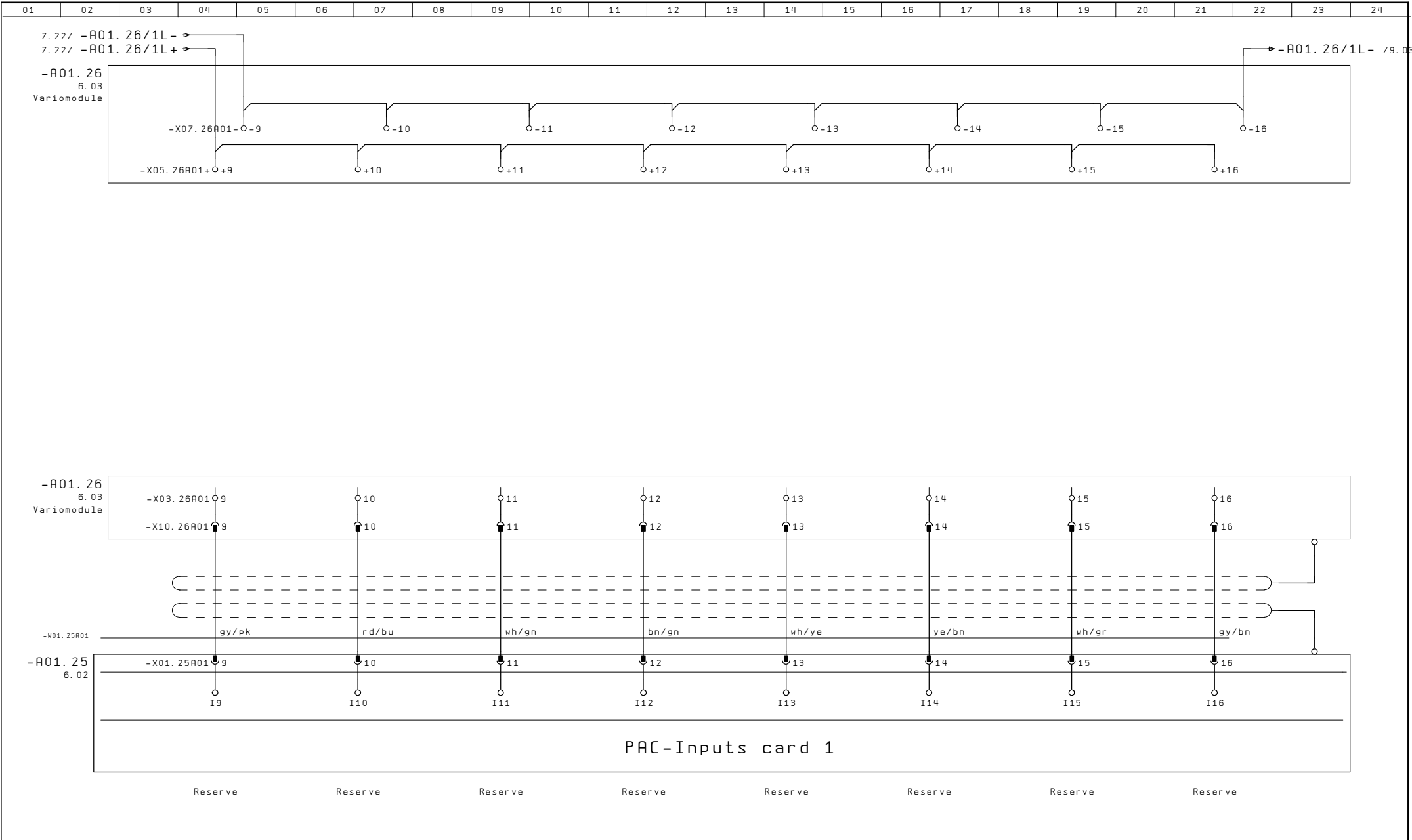


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PAC Inputs I1-I8	
PA-CONTROL CPU4-LVservoTEC	

Customer	Drawing-no. IEF	Page no.
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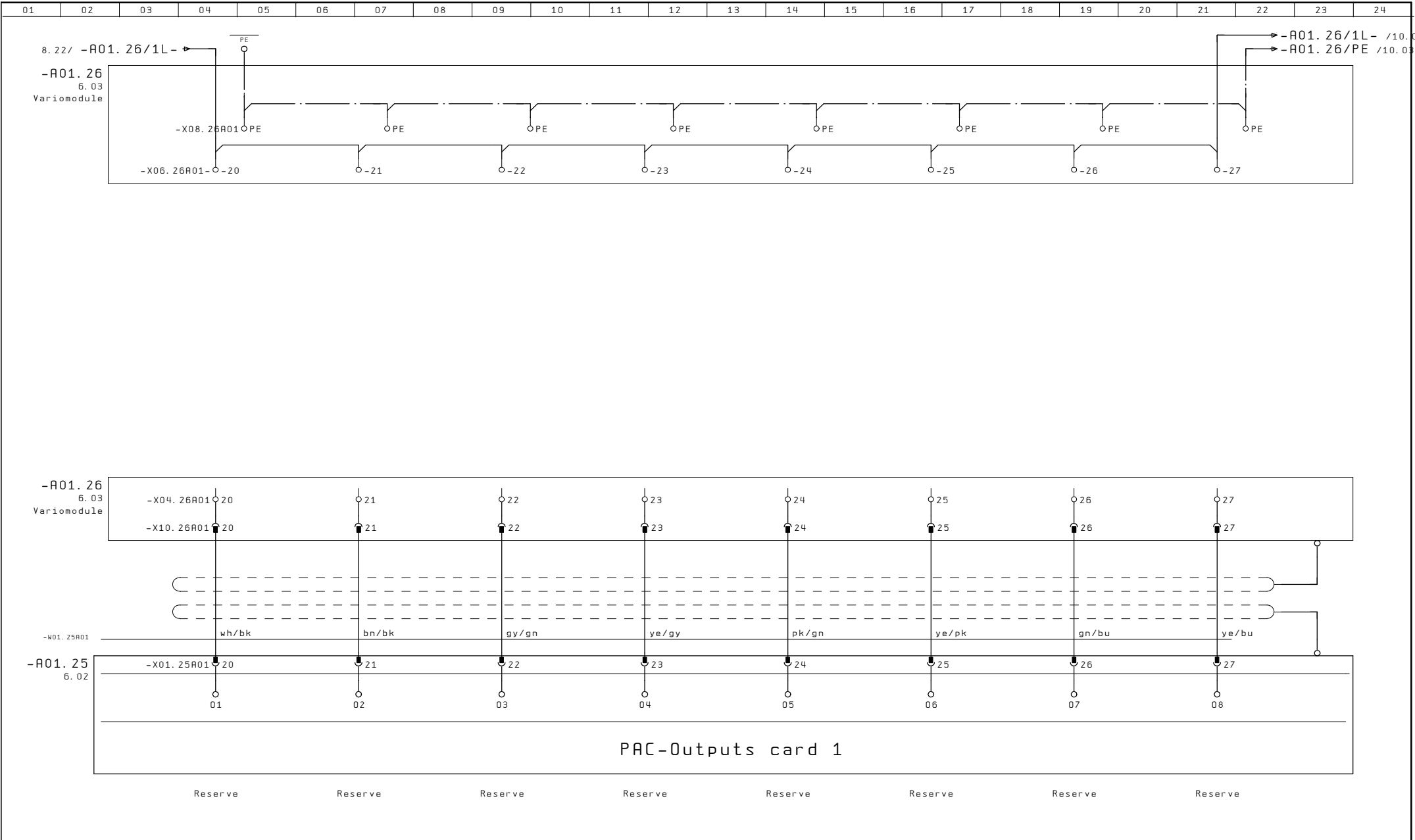
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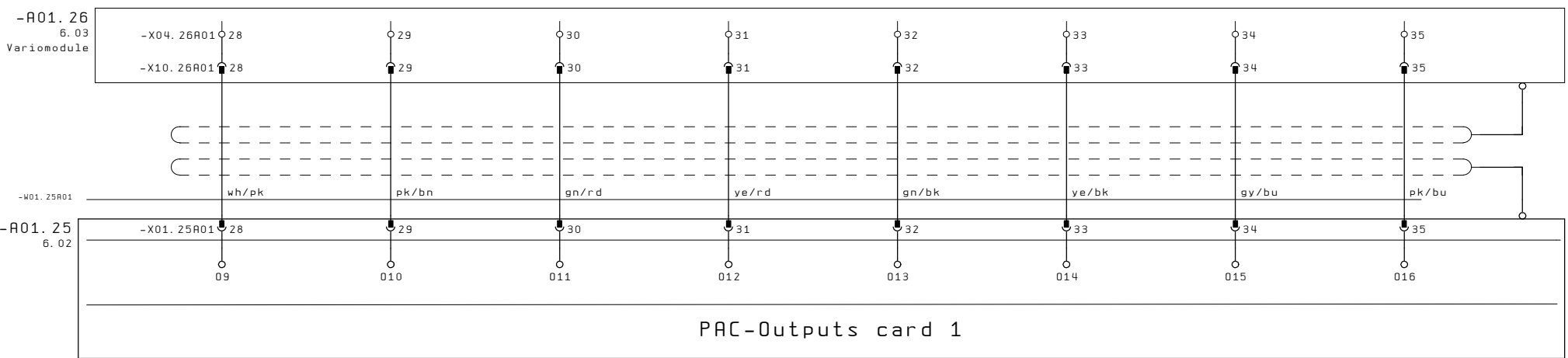
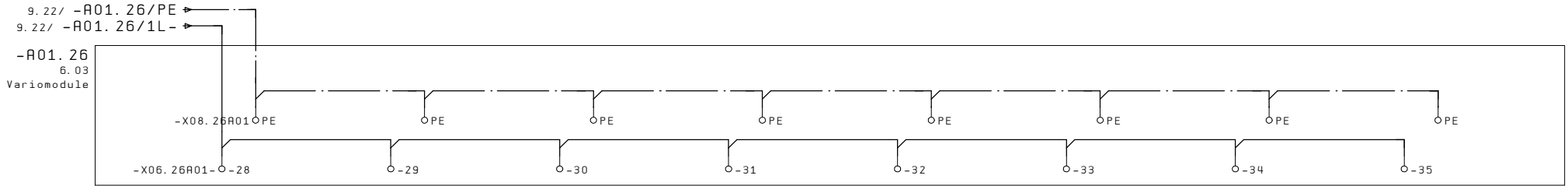
PAC Inputs I9-I16	
PA-CONTROL CPU4-LVservoTEC	

Customer	Drawing-no. IEF	Page no.
	1027133	8
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Editor		Date			PAC Outputs 01-08	Customer	Drawing-no. IEF	Page no.
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Print:		11.01.07				Final customer	Drawing-no. customer	Pages
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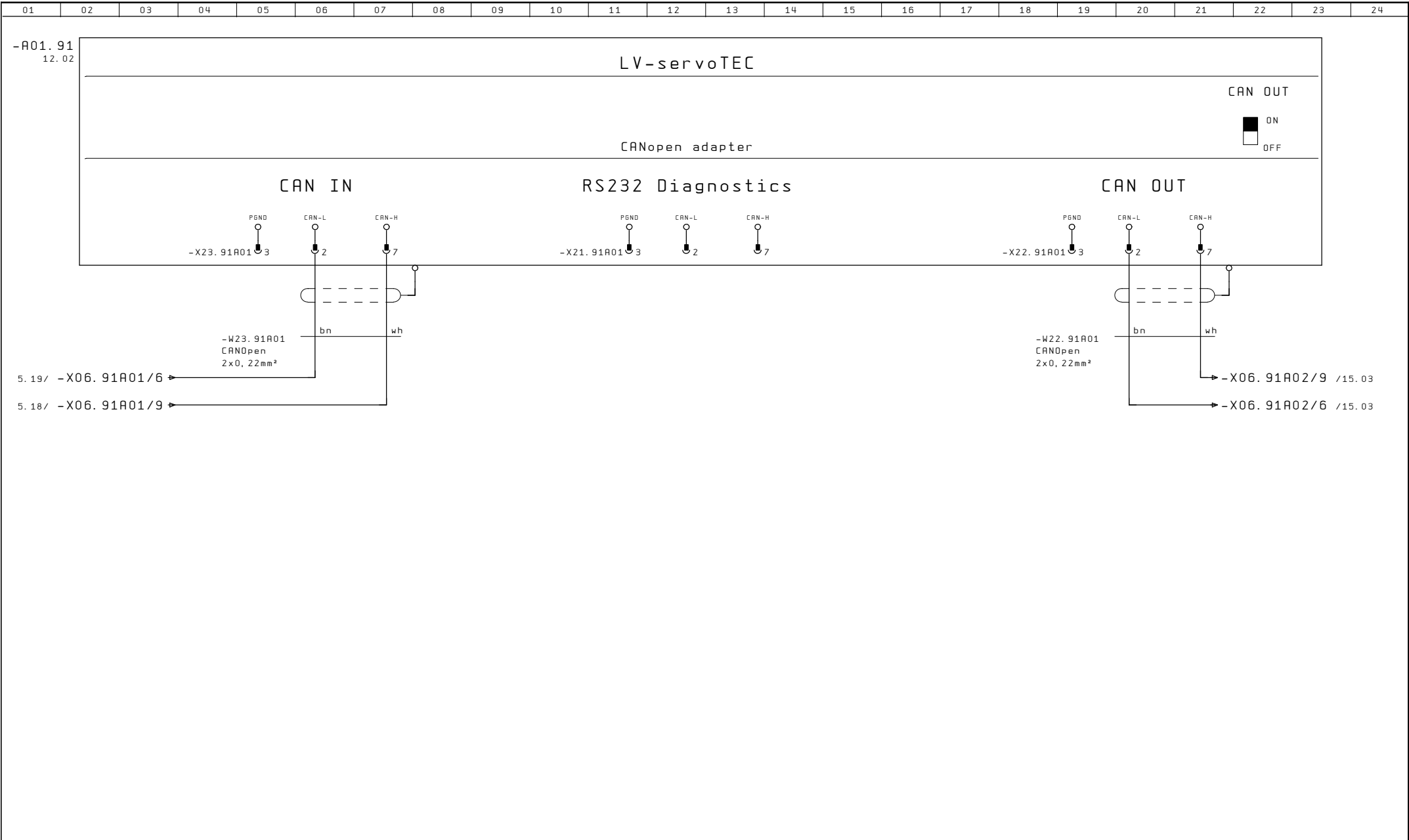
PAC-Outputs card 1

Reserve      Reserve      Reserve      Reserve      Reserve      Reserve      Reserve      Reserve

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PAC Outputs		Customer	Drawing-no. IEF	Page no.
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Axis a1 servo amplifier 1  
canopen connection

PA-CONTROL CPU4-LVservoTEC

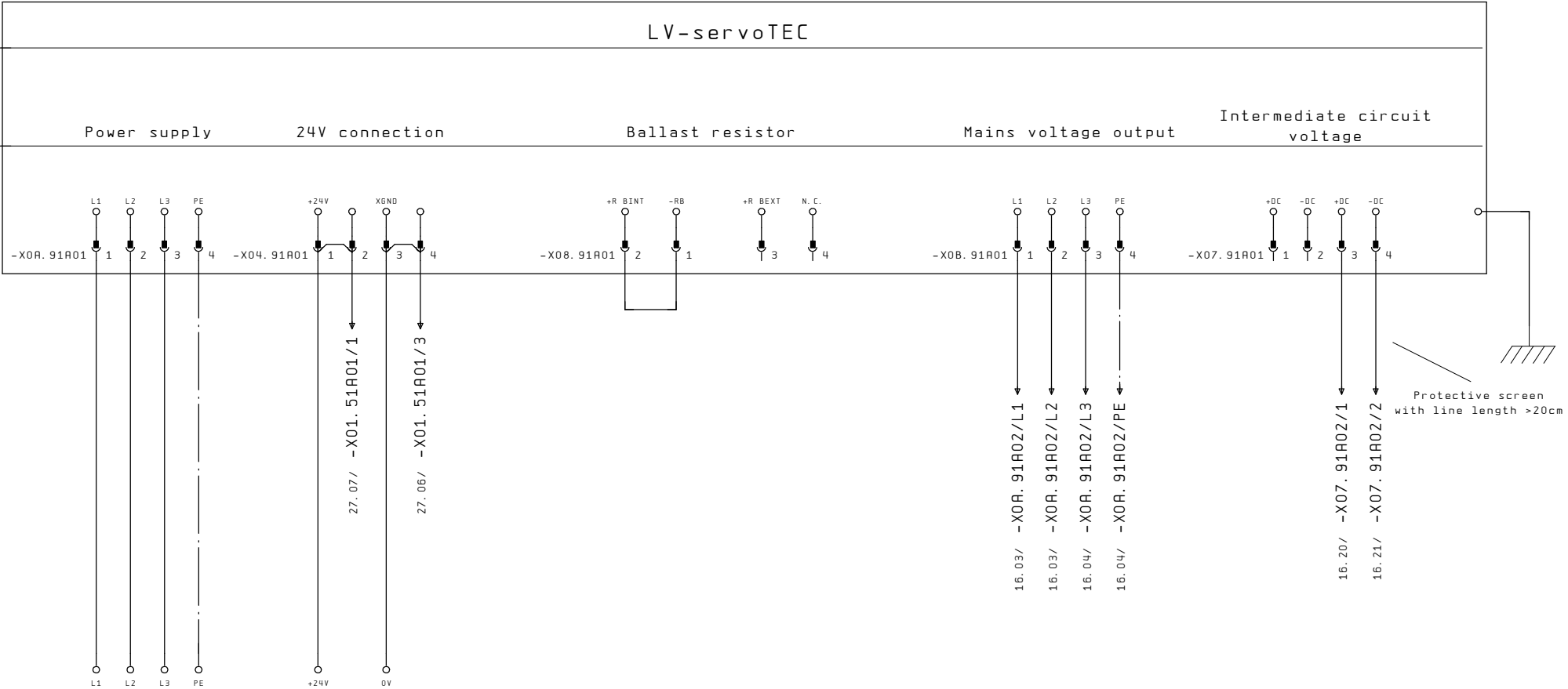
Customer	
Final customer	

Drawing-no. IEF	1027133
Drawing-no. customer	

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-A01.91  
11.02

### LV-servoTEC



Supply voltage servo amplifier after protective circuit 400V

Supply voltage servo amplifier in front of protective circuit 24V

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Axis A1 servo amplifier 1  
supply voltage

PA-CONTROL CPU4-LVservoTEC

Customer	Drawing-no. IEF	Page no.
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		27

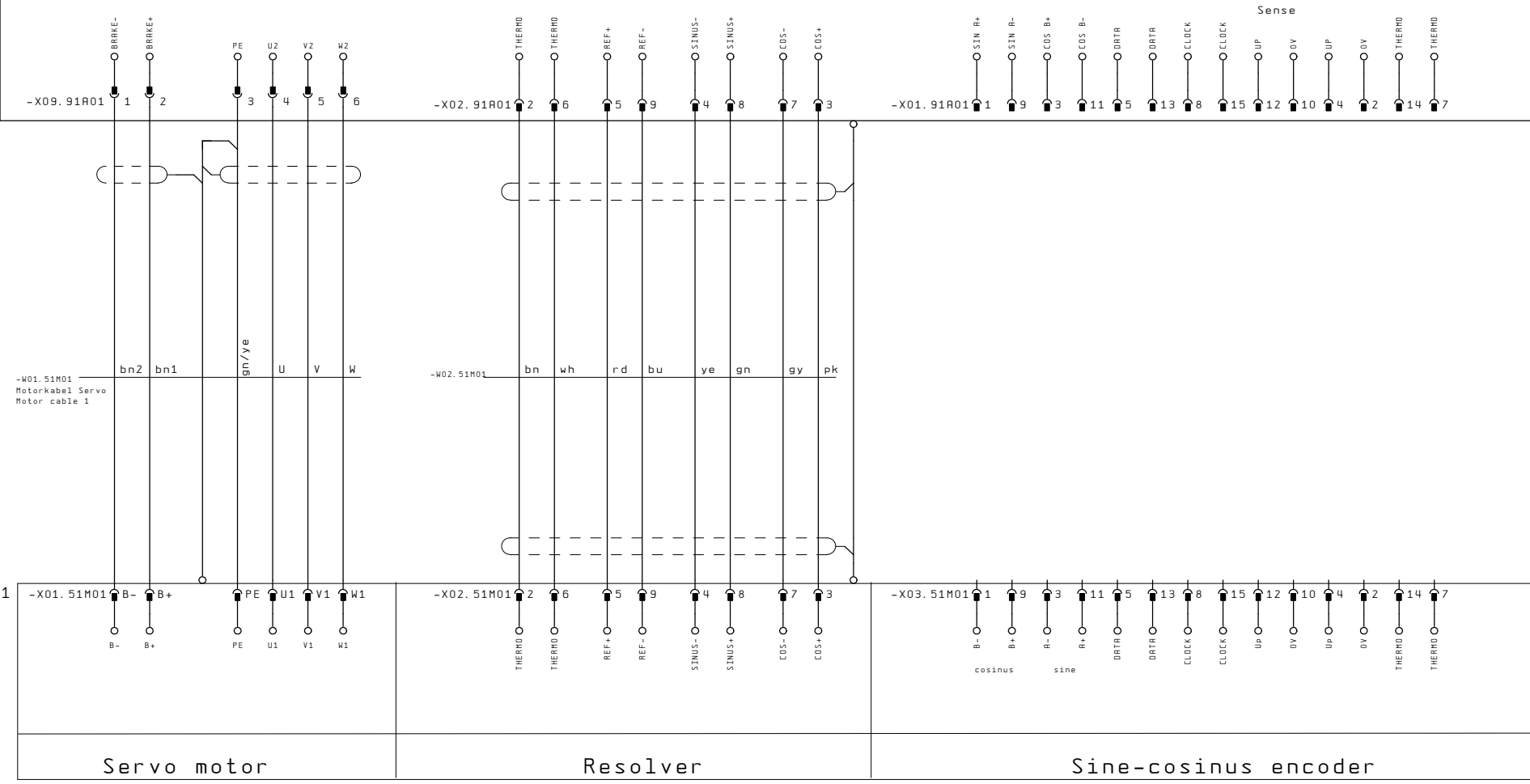
-A01. 91  
12.02

### LV-servoTEC

Motor connection

Resolver connection

Encoder connection



-M01. 51

Servo motor

Resolver

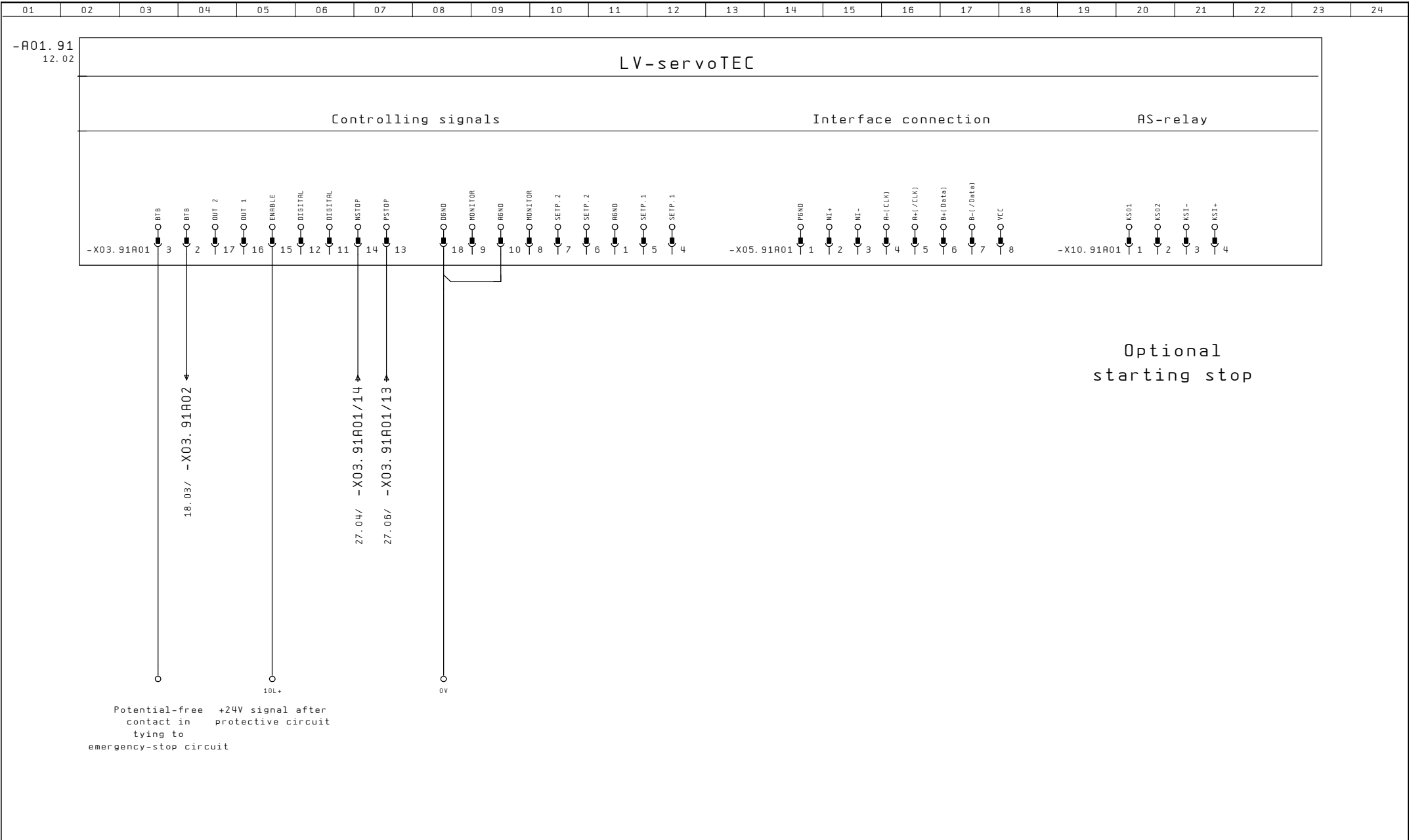
Sine-cosinus encoder

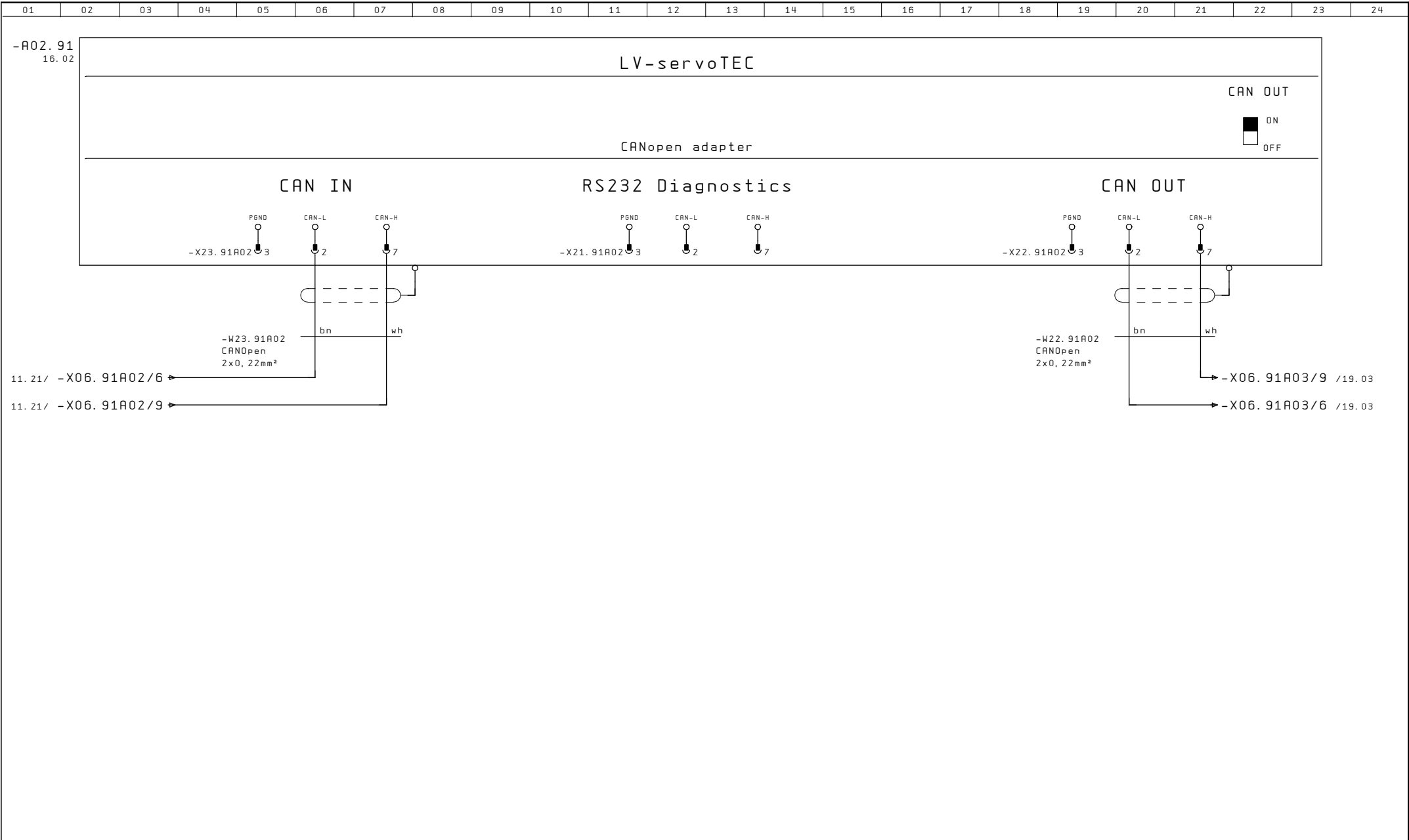
optional

Editor	Date	
Designer: VOL	26.02.02	
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Axis A1 servo amplifier 1  
motor connection  
PA-CONTROL CPU4-LVservoTEC

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Axis A2 servo amplifier 2  
CANopen connection

PA-CONTROL CPU4-LVservoTEC

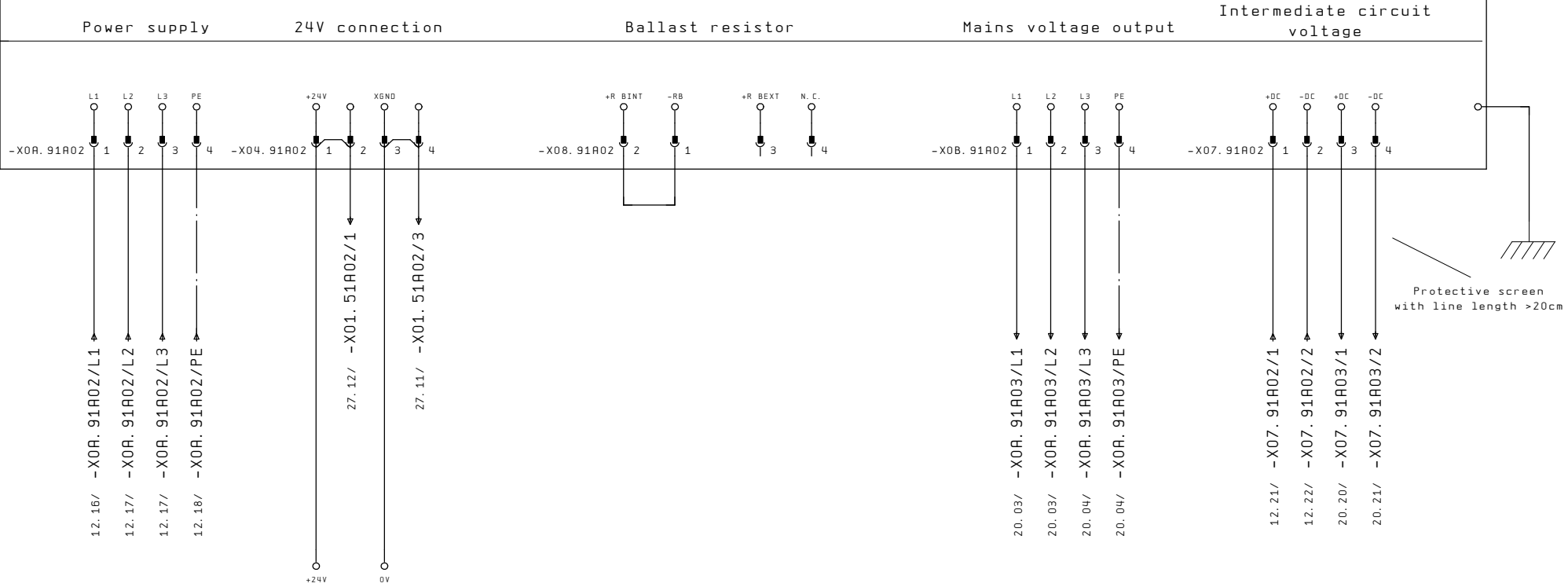
Customer	
Final customer	

Drawing-no. IEF	1027133
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-A02. 91  
15. 02

LV-servoTEC



Supply voltage servo amplifier in front of protective circuit 24V

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Axis A2 servo amplifier 2  
supply voltage

PA-CONTROL CPU4-LVservoTEC

Customer	Drawing-no. IEF	Page no.
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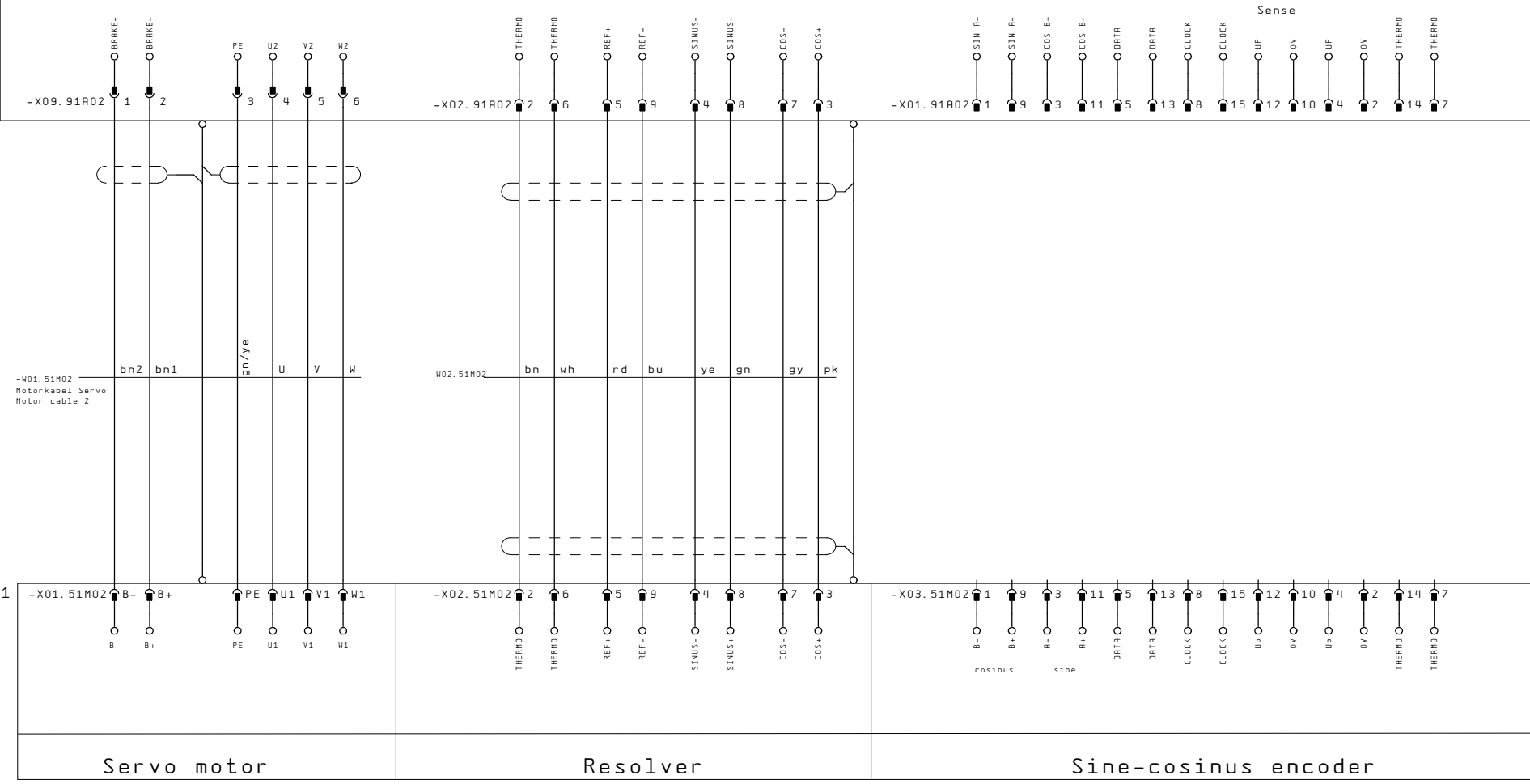
-A02. 91  
16.02

LV-servoTEC

Motor connection

Resolver connection

Encoder connection



-M02. 51

Servo motor

Resolver

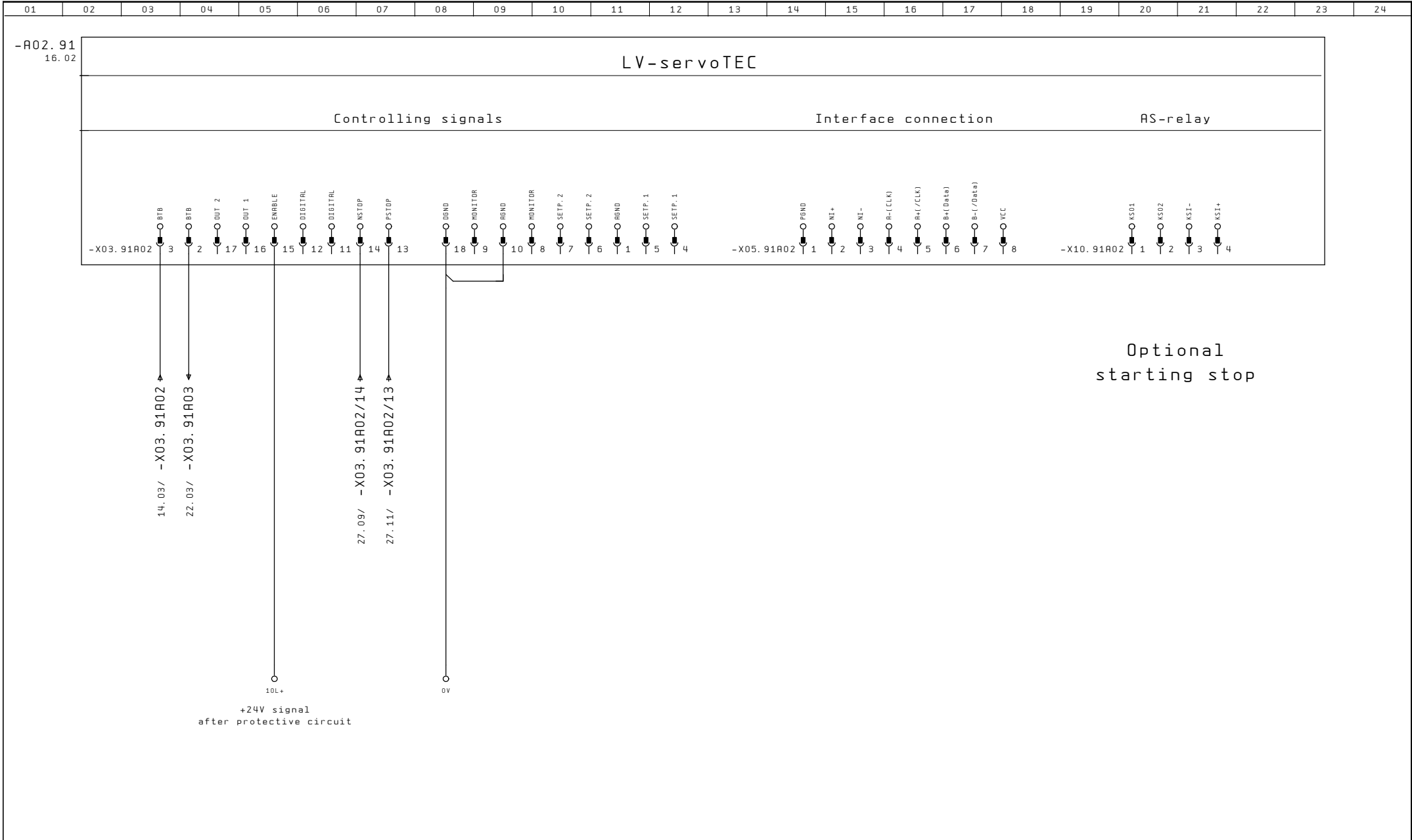
Sine-cosinus encoder

optional

Editor	Date	
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Axis A2 servo amplifier 2  
motor connection  
PA-CONTROL CPU4-LVservoTEC

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Axis A2 servo amplifier 2

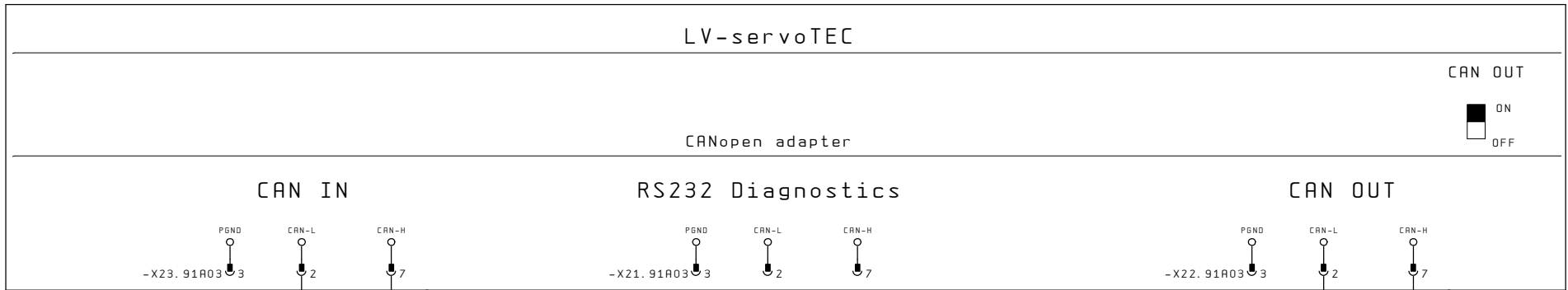
PA-CONTROL CPU4-LVservoTEC

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Final customer	

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Drawing-no. customer	

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-A03. 91  
20. 02



-W23. 91A03  
CANOpen  
2x0, 22mm²

-W22. 91A03  
CANOpen  
2x0, 22mm²

15. 21/ -X06. 91A03 / 6

15. 21/ -X06. 91A03 / 9

-X06. 91A04 / 9 / 23. 03

-X06. 91A04 / 6 / 23. 03

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Axis A3 servo amplifier 3  
CANOpen connection  
PA-CONTROL CPU4-LVservoTEC

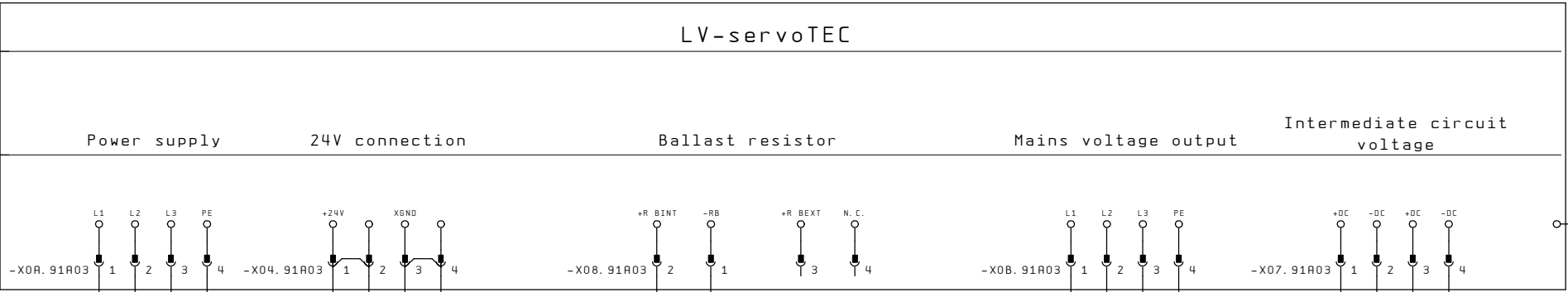
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Final customer	

Drawing-no. IEF	1027133
Drawing-no. customer	

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-A03. 91  
19. 02

### LV-servoTEC



Protective screen  
with line length >20cm

Supply voltage servo  
amplifier in  
front of protective  
circuit 24V

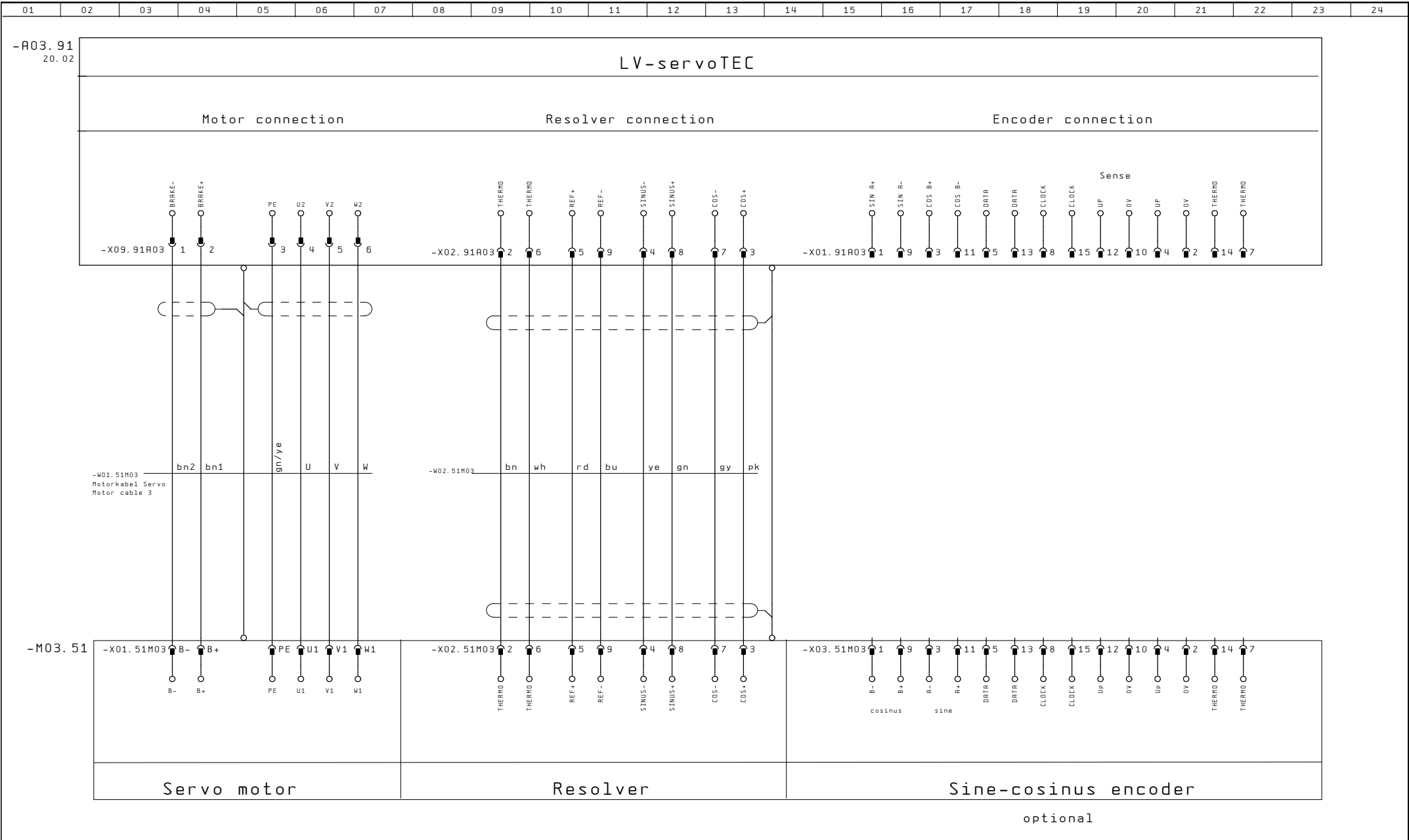
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Axis A3 servo amplifier 3  
supply voltage

PA-CONTROL CPU4-LVservoTEC

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Final customer	Drawing-no. customer	Pages
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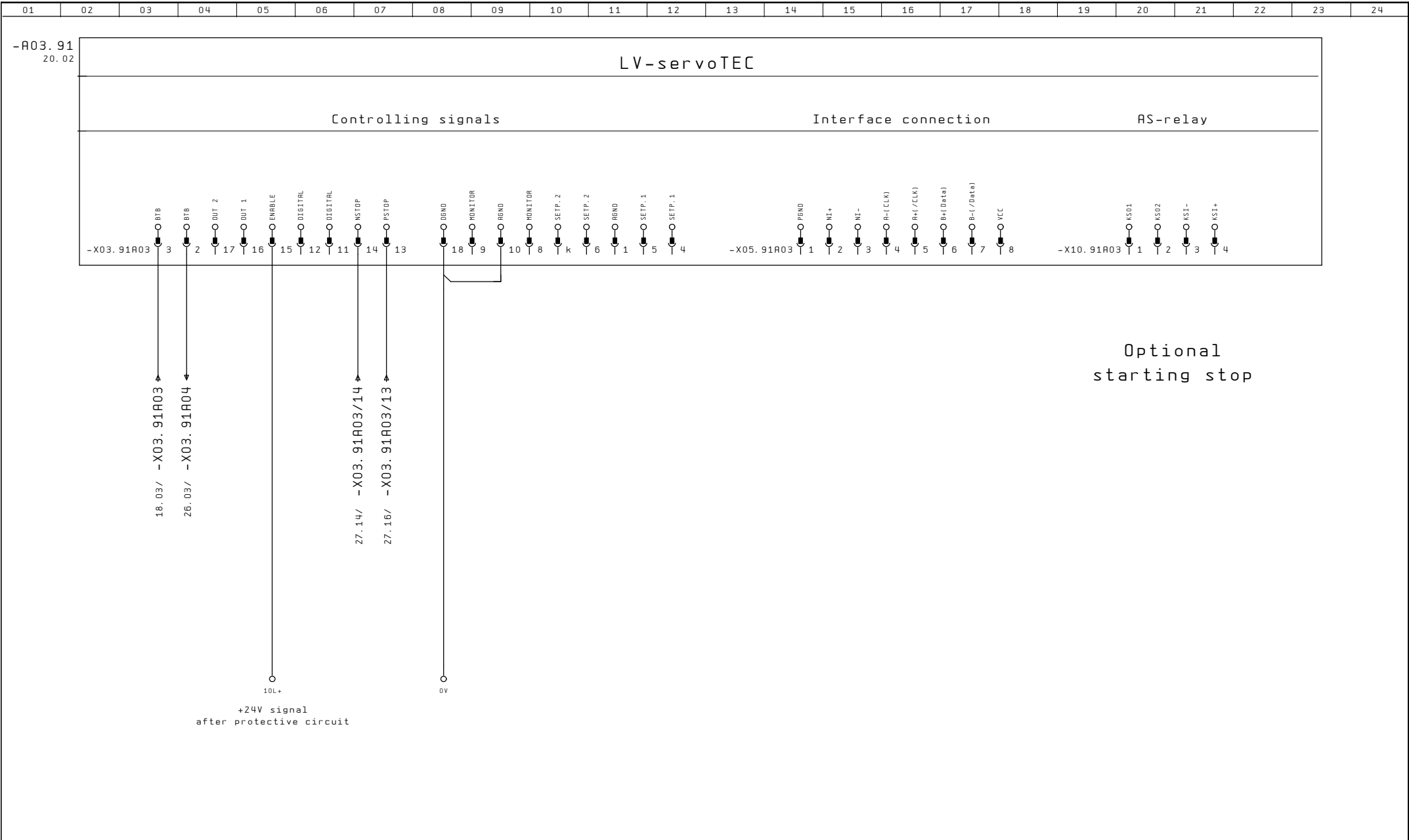


Editor	Date	
Designer:	VOL 26.02.02	
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System:	Place:	

Axis A3 servo amplifier 3  
motor connection

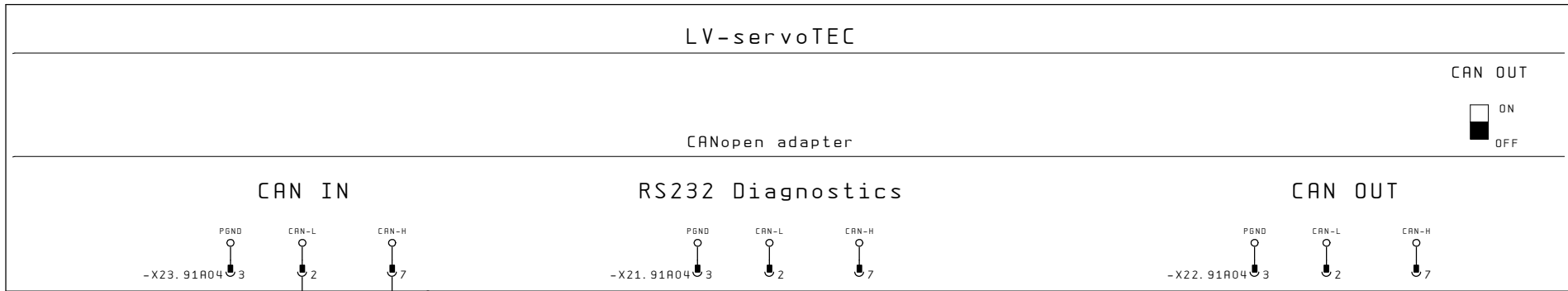
PA-CONTROL CPU4-LVservoTEC

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Final customer		Drawing-no. customer	Pages
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System:	Place:		Final customer		

-A04. 91  
24. 02



19. 21/ -X06. 91A04/6

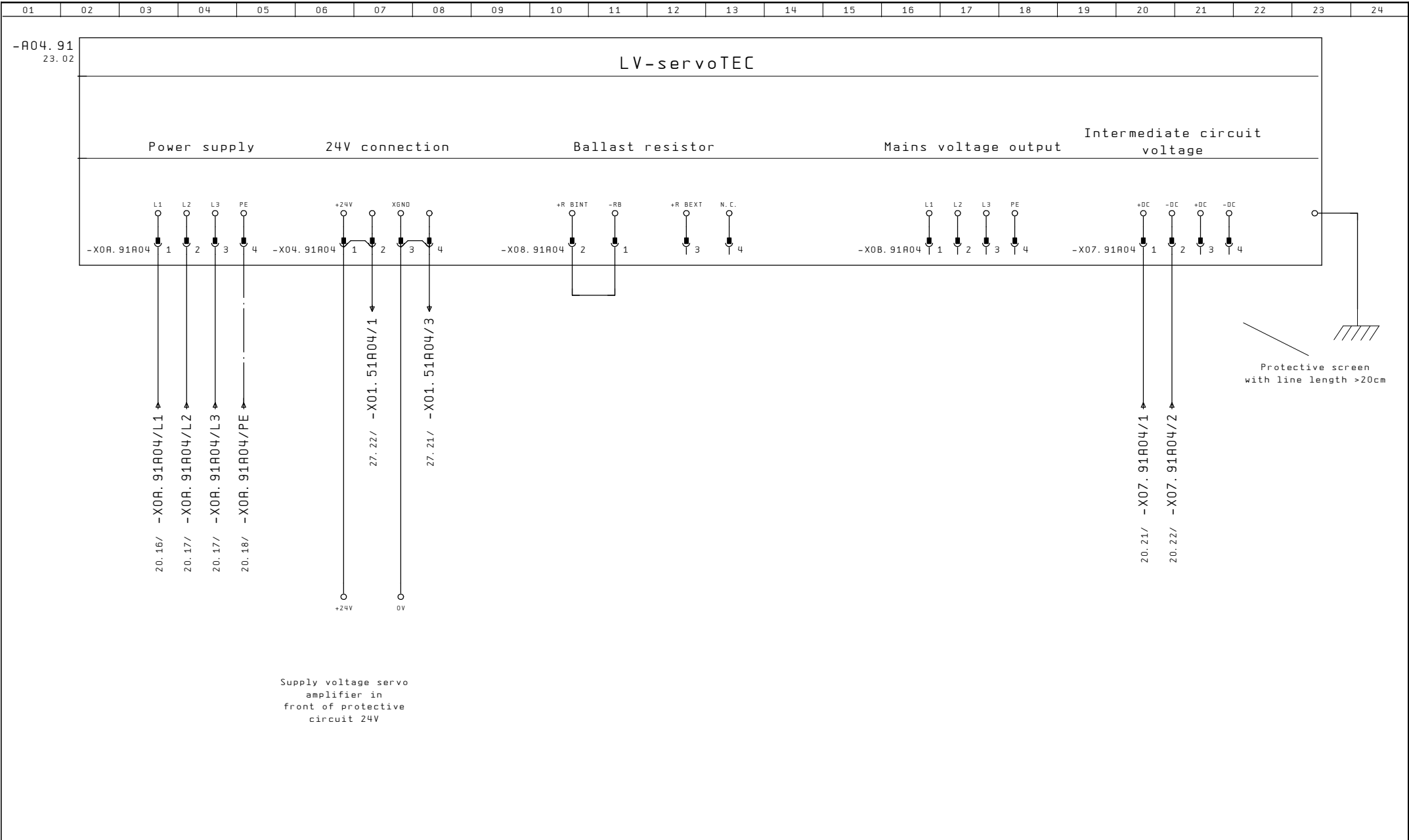
19. 21/ -X06. 91A04/9

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Axis A4 servo amplifier 4  
CANopen connection

PA-CONTROL CPU4-LVservoTEC

Customer	Drawing-no. IEF	Page no.
	1027133	23
Final customer	Drawing-no. customer	Pages
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Editor	Date	 Axis A4 servo amplifier 4 supply voltage  PA-CONTROL CPU4-LVservoTEC	Customer	Drawing-no. IEF	Page no.
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Modification: VOL	28.06.05			Drawing-no. customer	Pages
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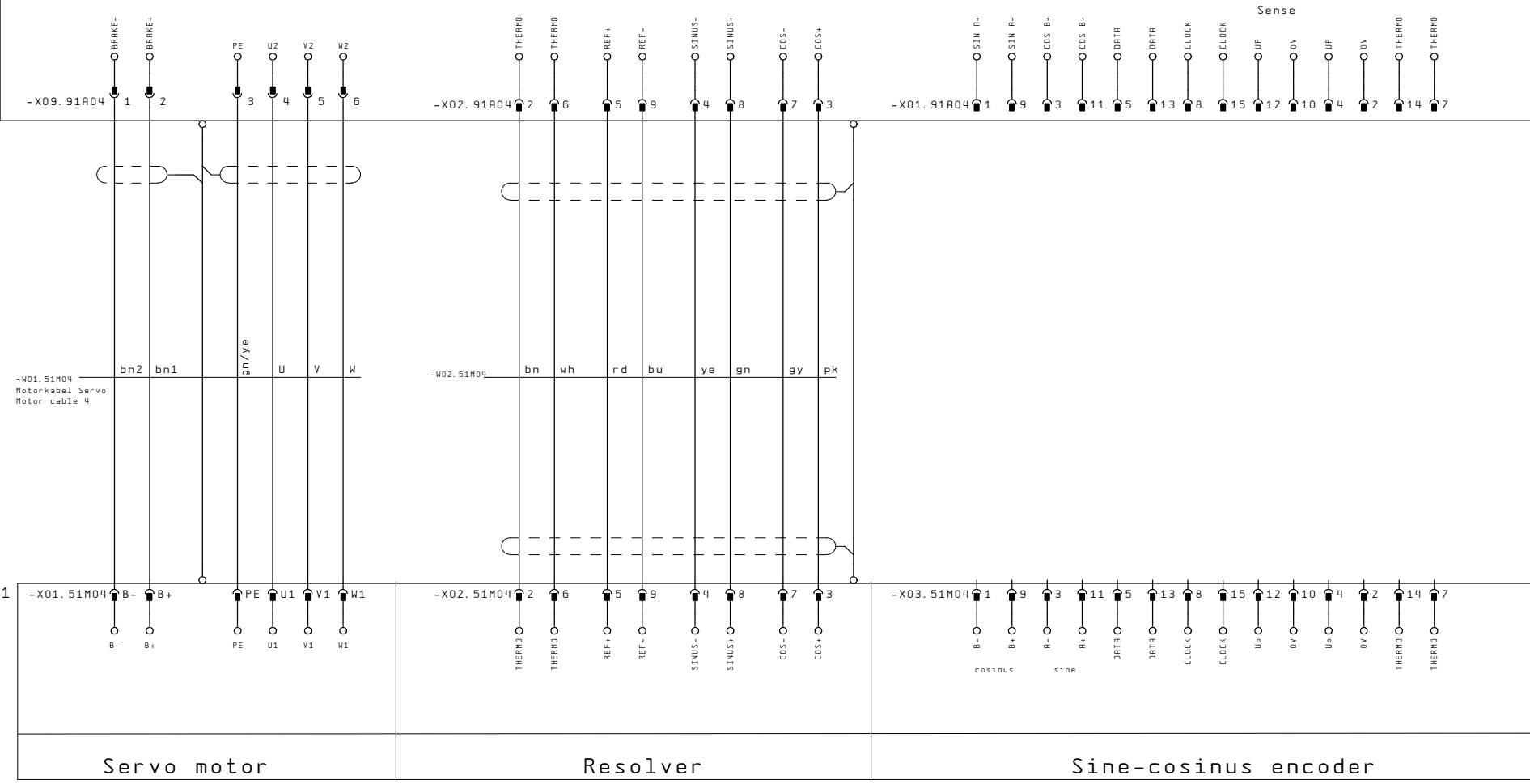
-A04. 91  
24. 02

### LV-servoTEC

Motor connection

Resolver connection

Encoder connection



Servo motor

Resolver

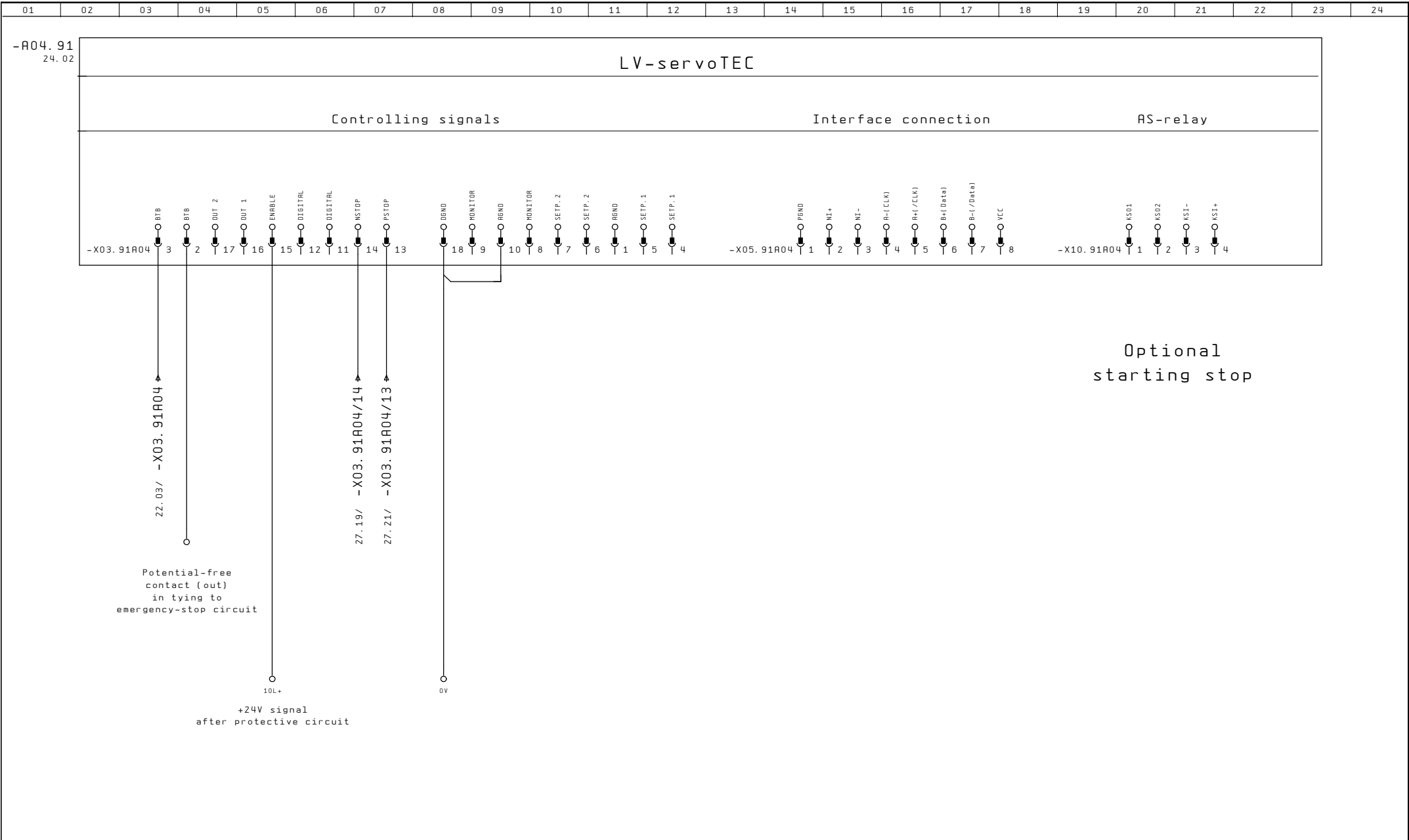
Sine-cosinus encoder

optional

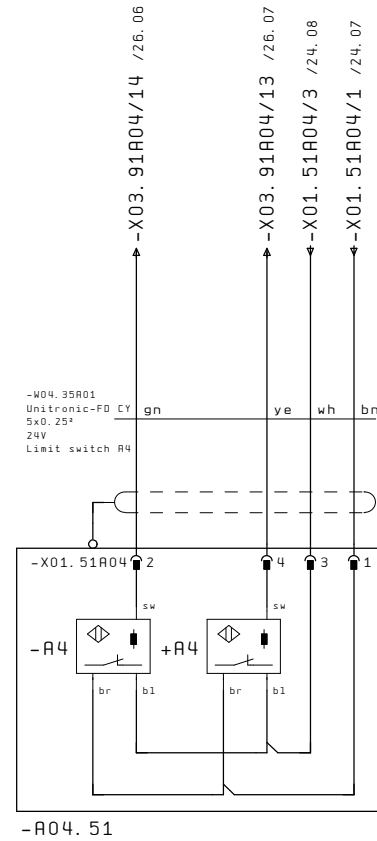
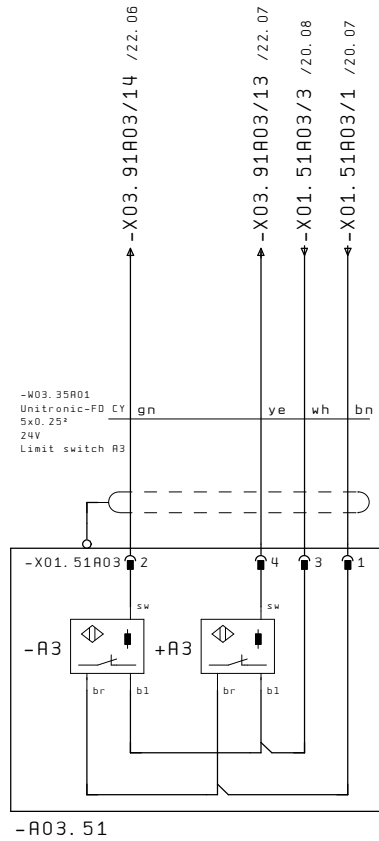
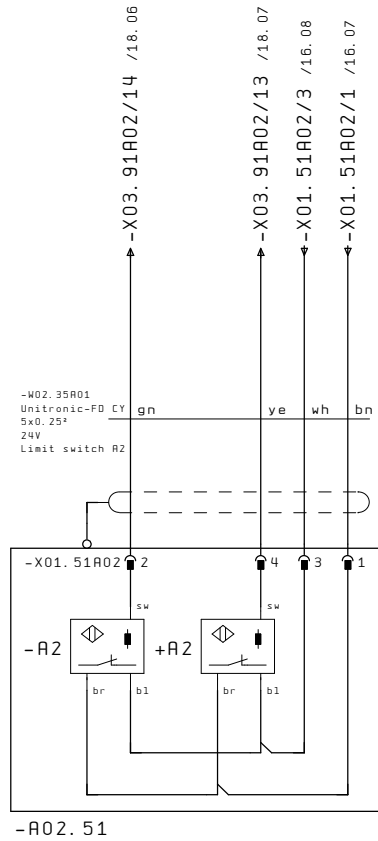
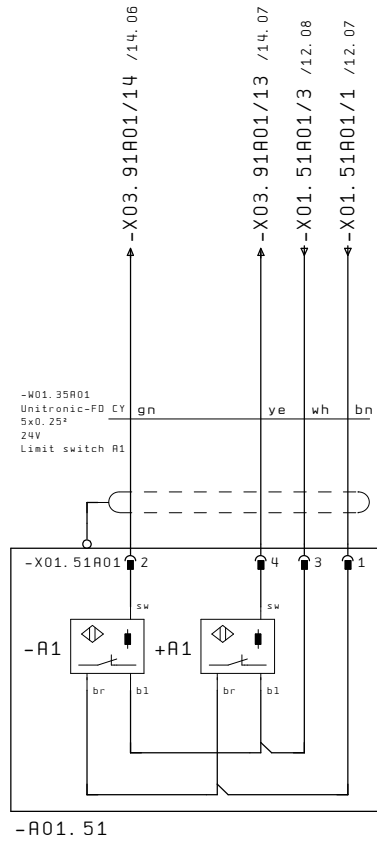
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Axis A4 servo amplifier 4  
motor connection  
PA-CONTROL CPU4-LVservoTEC

Customer	Drawing-no. IEF	Page no.
	1027133	25
Final customer	Drawing-no. customer	Pages
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Editor	Date	<p>Axis A4 servo amplifier 4</p> <p>PA-CONTROL CPU4-LVservoTEC</p>	Customer	Drawing-no. IEF	Page no.	
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Axis limit switch  
Axis 1-4

PA-CONTROL CPU4-LVservoTEC

Customer	
Final customer	

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Drawing-no. customer	

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