

Wendelhofstr. 6
 D-78120 Furtwangen/Germany
 Phone: +49 (0)7723-925-0
 Fax: +49 (0)7723-925-100
 eMail: info@IEF-Werner.de



Circuit diagram

Customer :
 Plant designation : PA-CONTROL 8-axis CPU4
 Project number : 1027192

Type : 8 Axes english
 Manufacturing date : 2002
 Incoming supply : 230V/50Hz/16A
 Feeding : 3x1,5²mm
 Fuse protection : 16A
 Control voltage : 24V

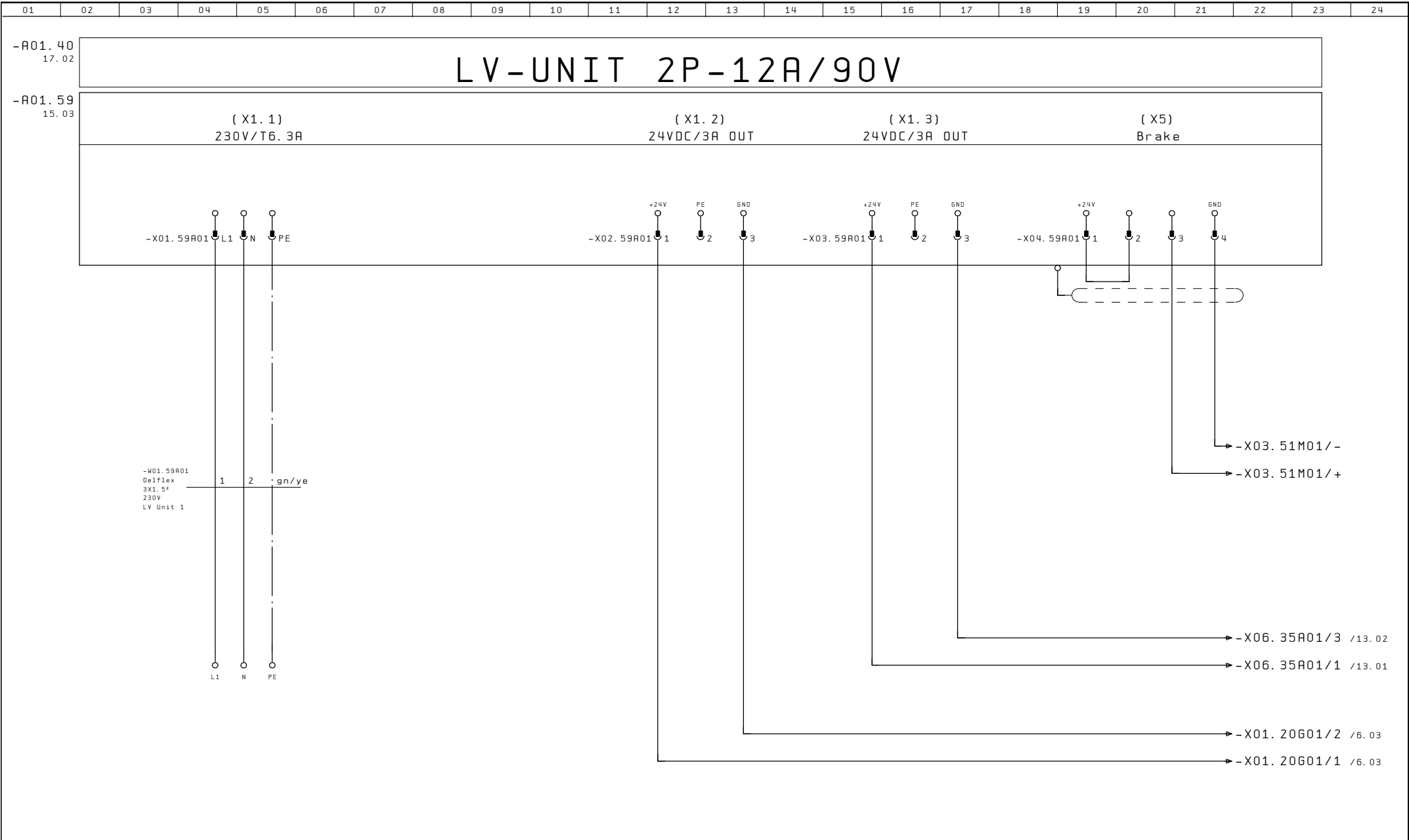
Created on : 11.10.02 Highest Page No. : 24
 Project leader : A.Pfeiffer
 Last changed : 28.06.05
 Editor : VOL

Editor		Date		Title page	Customer	Drawing-no. IEF	Page no.
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System:	Place:			PA-CONTROL 8-axis CPU4			

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WUPJ0010 24.02.1994

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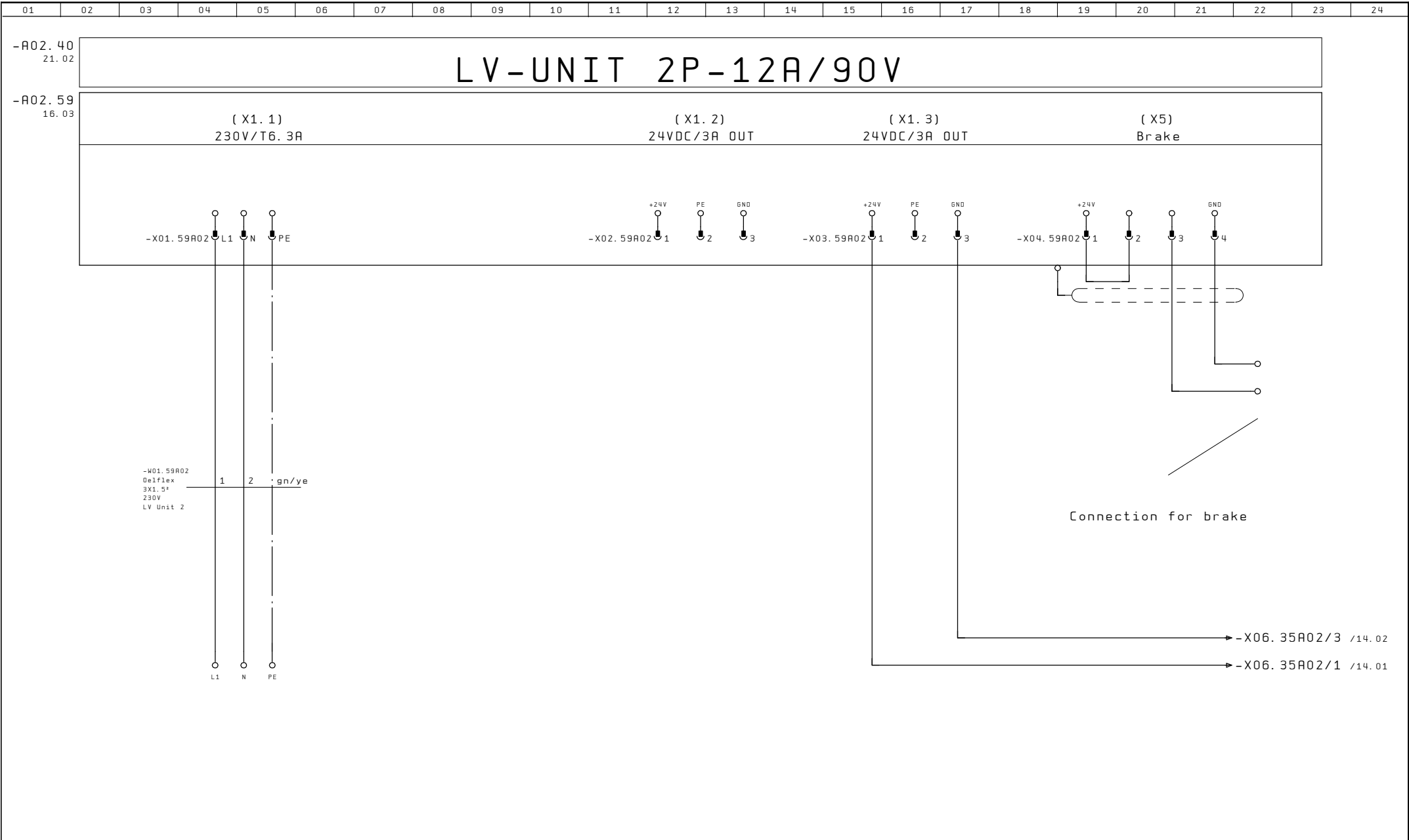


Power supply connection LV-unit 1

PA-CONTROL 8-axis CPU4

Customer	
Final customer	

Drawing-no. IEF	Page no.
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Drawing-no. customer	Pages
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Power supply connection LV-unit 2

PA-CONTROL 8-axis CPU4

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Pages	24

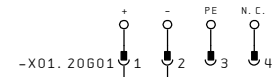
-R01. 20
7.02

PA-CONTROL

-G01. 20

NT8

(X1. 3)
24V IN




-W01. 20G01
Unitronic-FD LY
3X0.5"
24V
PA-CONTROL

bn bu

4. 22/ -X01. 20G01/1 ▶

4. 22/ -X01. 20G01/2 ▶

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PA-CONTROL CPU-Power supply

Customer

Drawing-no. IEF

Page no.

1027192

6

Final customer

Drawing-no. customer

Pages

PA-CONTROL 8-axis CPU4

24

-A01. 20
6.02

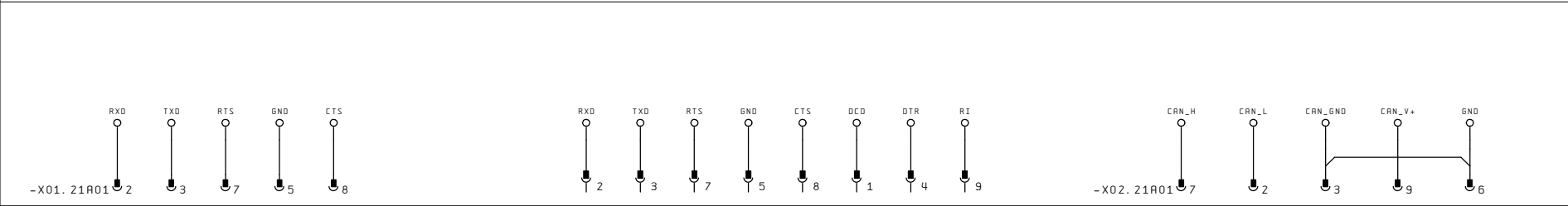
PA-CONTROL

-A01. 21

(X1)
COM1 Interface

CPU 4

(X2)
CAN Interface



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PA-CONTROL
interface connection

PA-CONTROL 8-axis CPU4

Customer
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Drawing-no. IEF
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Drawing-no. customer

Page no.
7
Pages
24

-A01. 20
6. 02

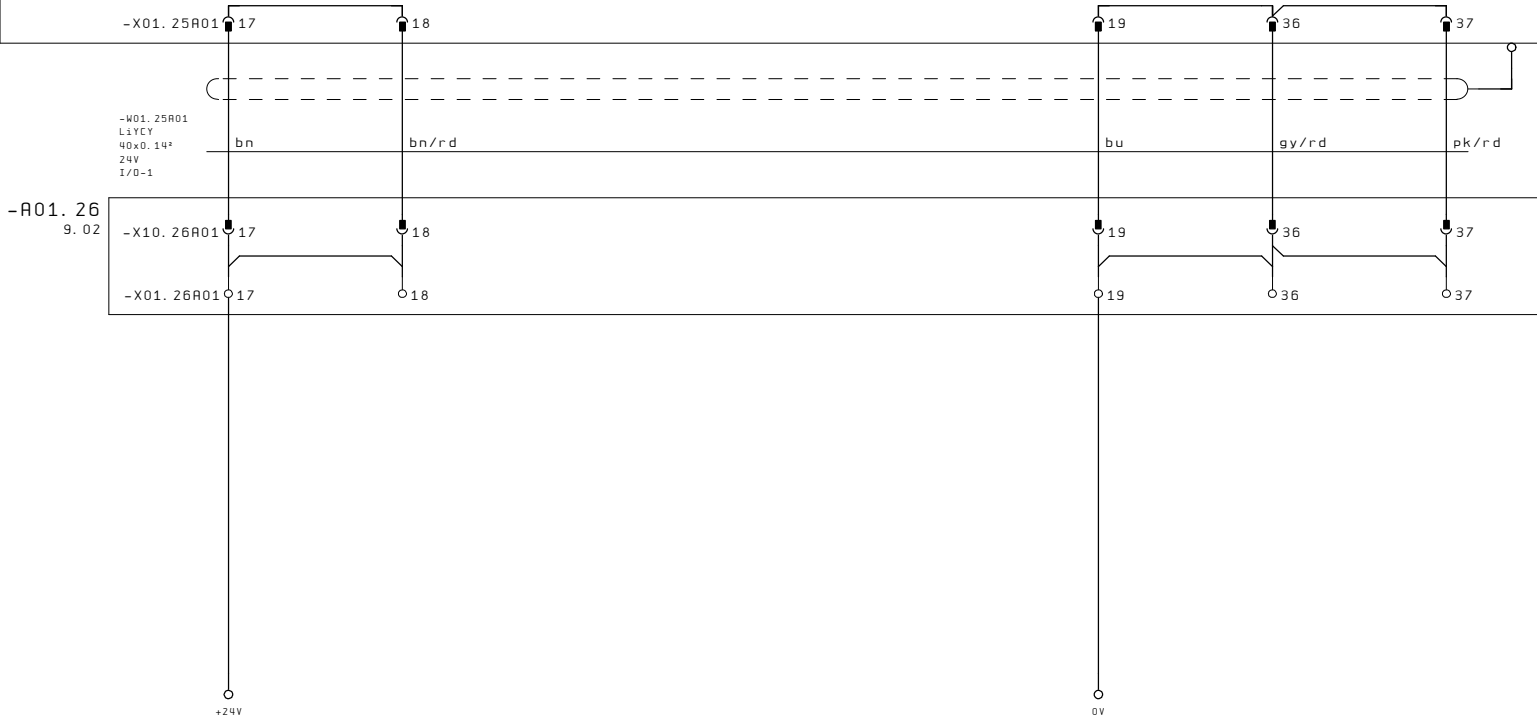
PA-CONTROL

-A01. 25
9. 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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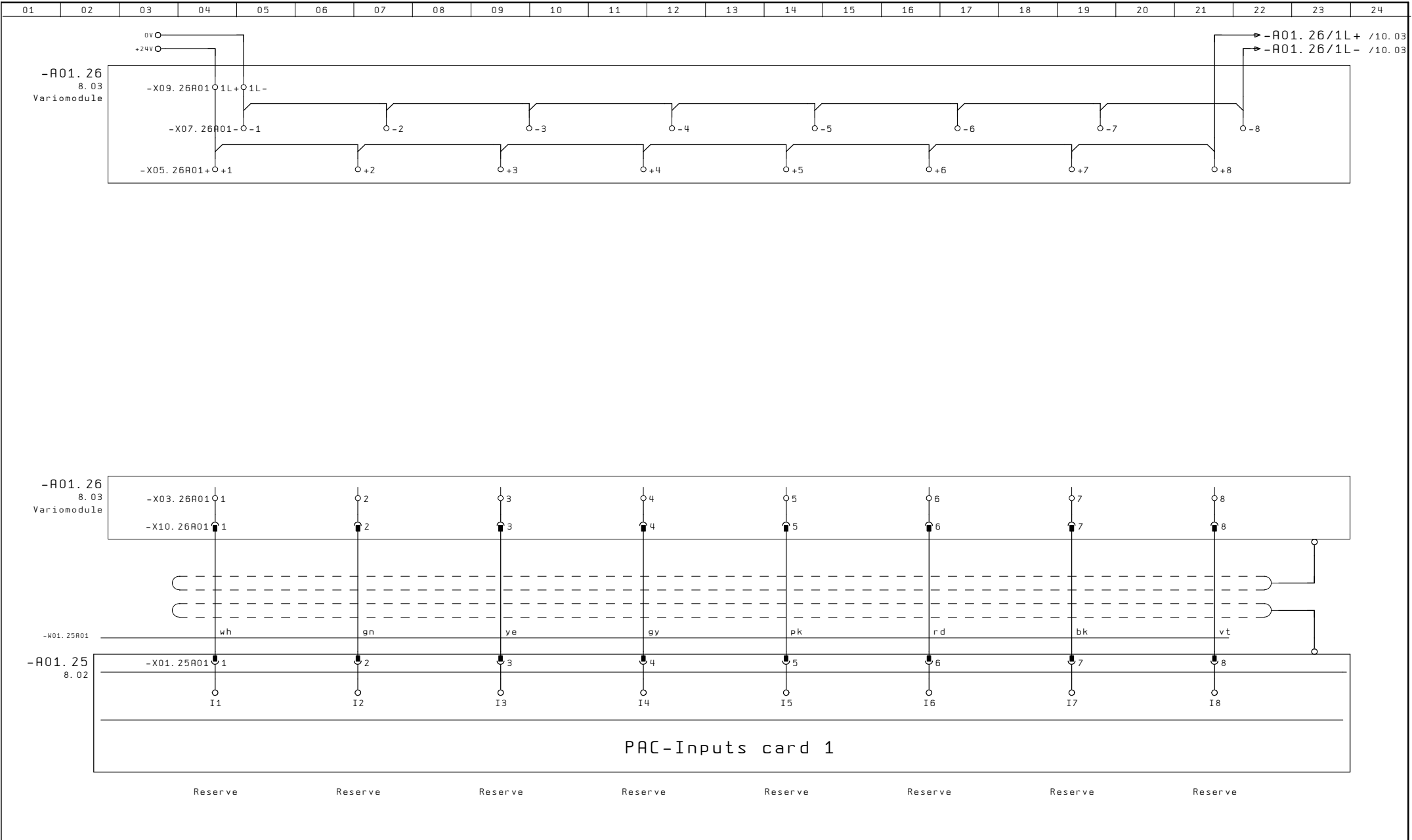


Power supply PAC
I/O-card
PA-CONTROL 8-axis CPU4

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Final customer	

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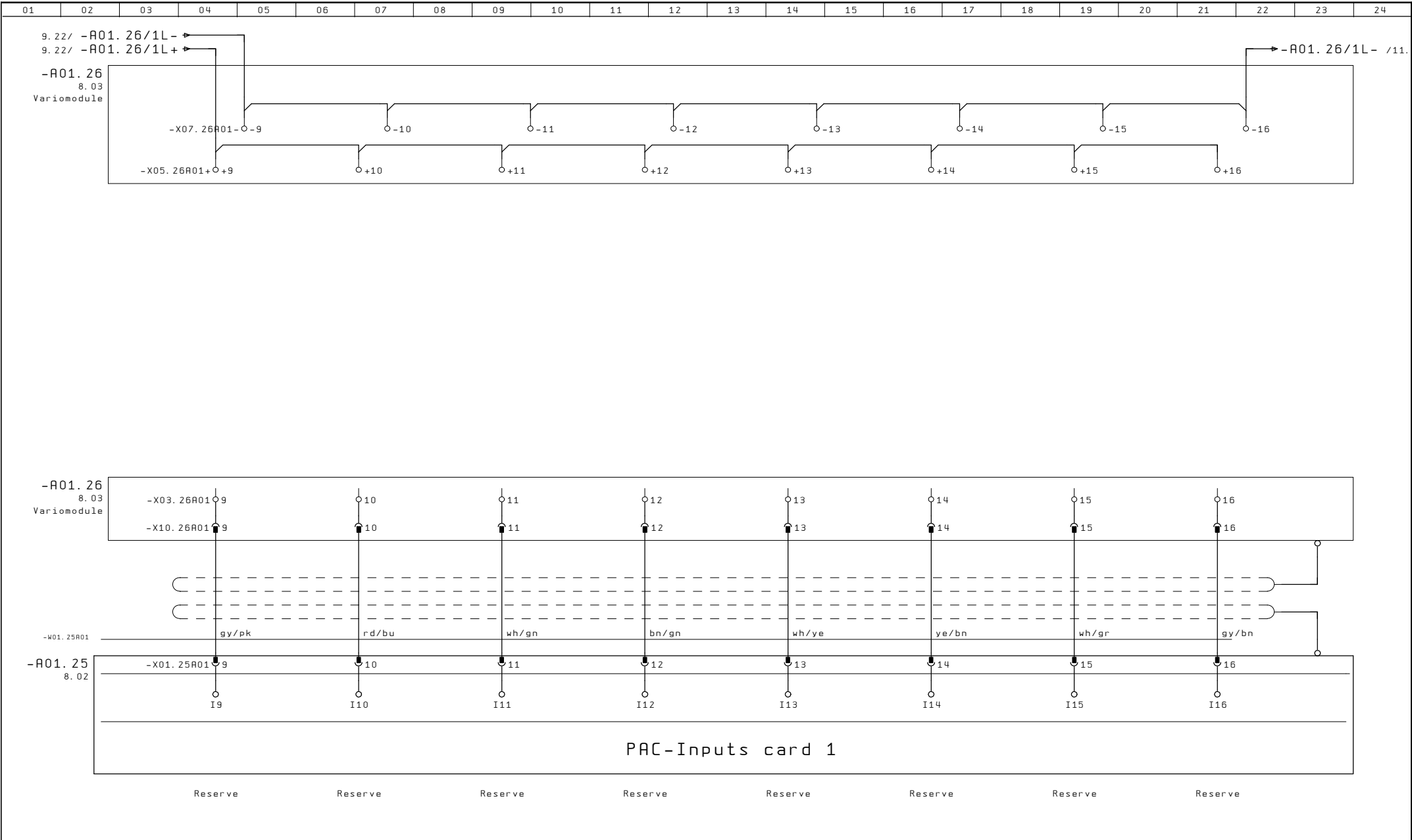


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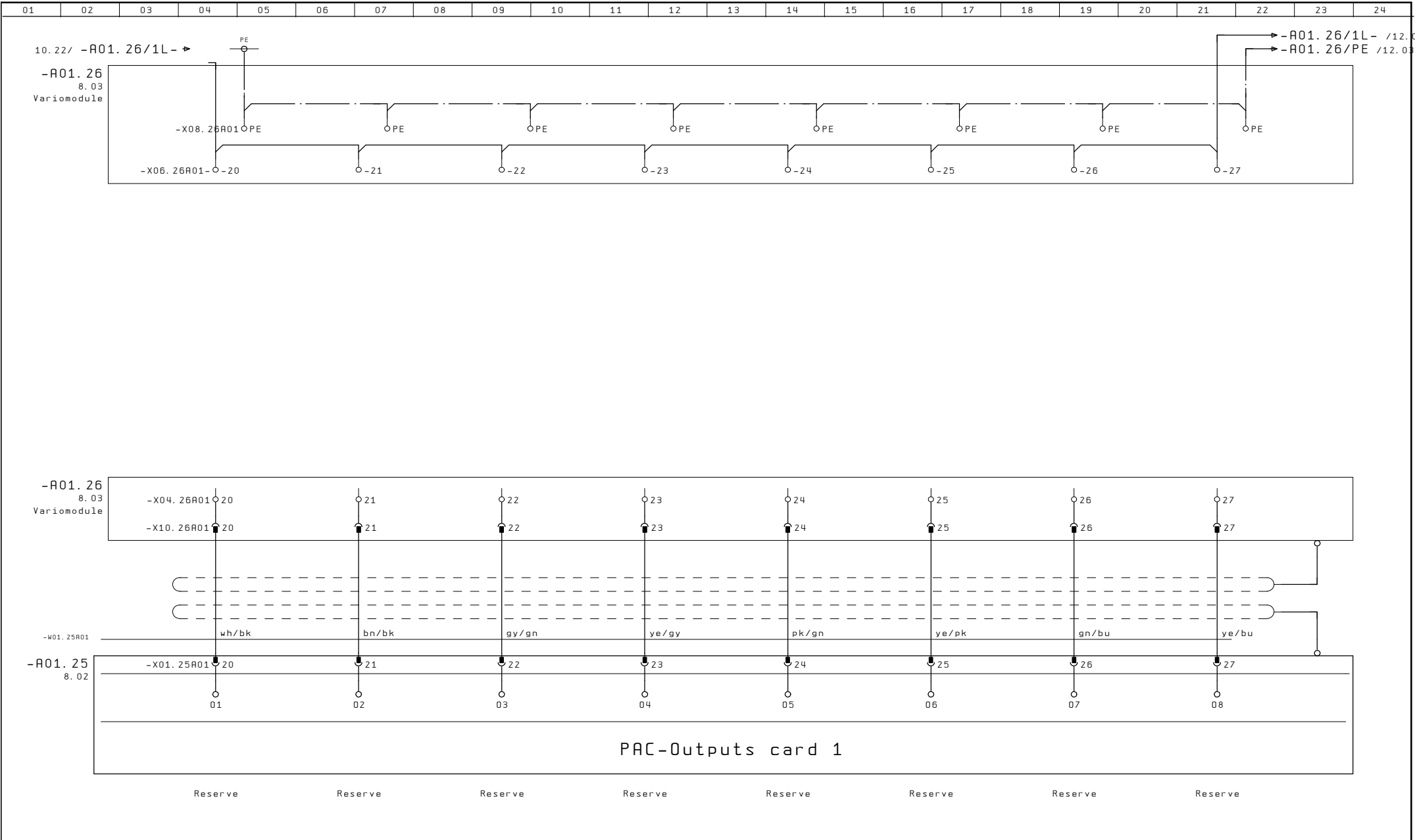



PAC Inputs I1-I8
PA-CONTROL 8-axis CPU4

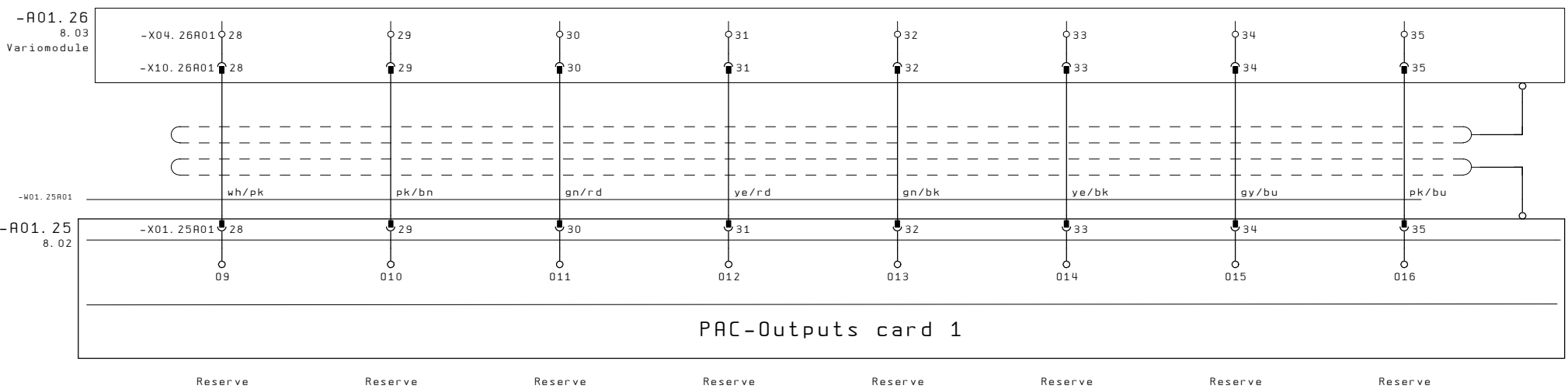
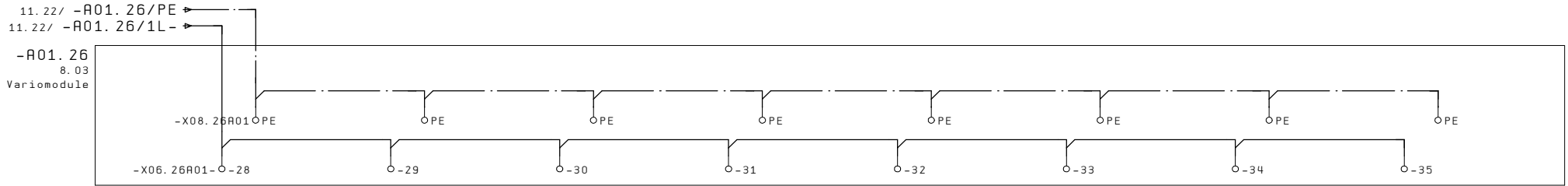
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PAC-Outputs card 1

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PA-CONTROL 8-axis CPU4		Final customer	Drawing-no. customer	Pages
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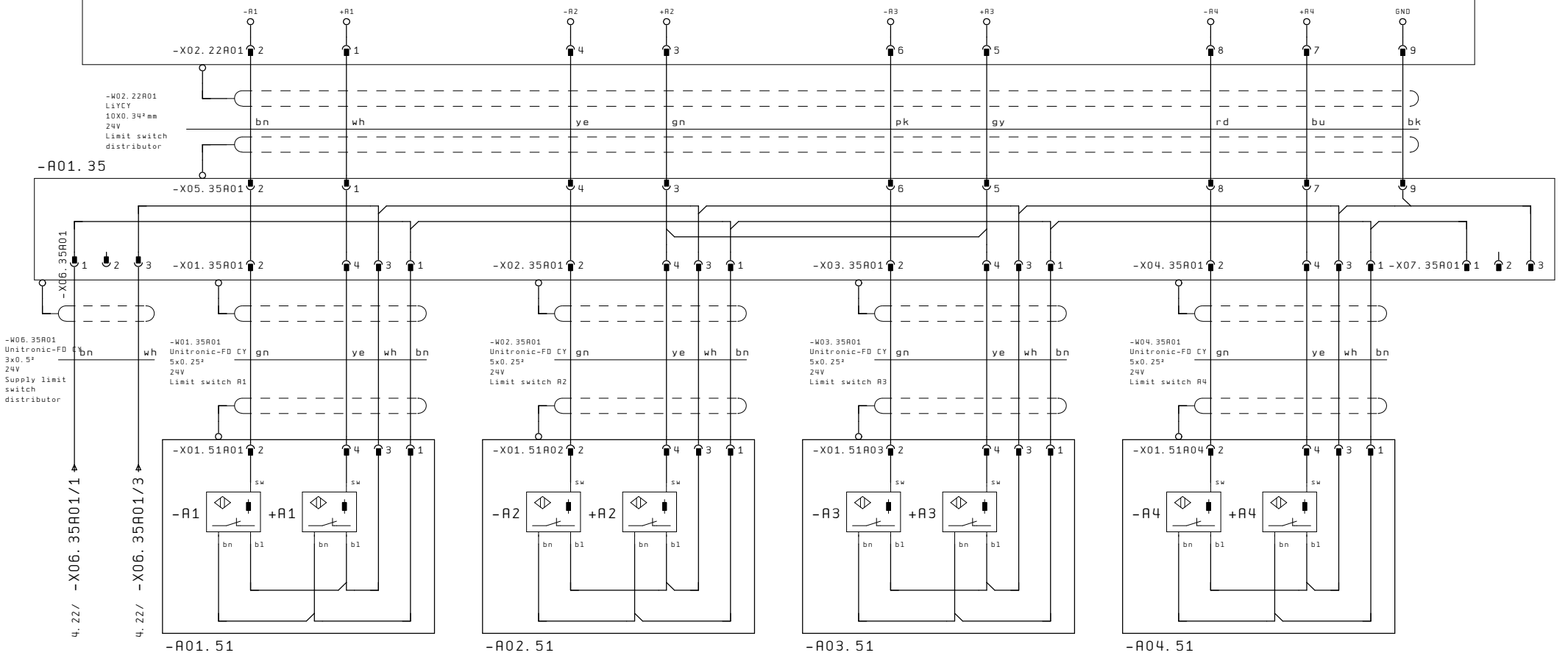
-R01. 20
6. 02

PA-CONTROL

-R01. 22
15. 02

PA-CONTROL PLS7 board

-A1 : Limit switch axis 1-
+A1 : Limit switch axis 1+
-A2 : Limit switch axis 2-
+A2 : Limit switch axis 2+
-A3 : Limit switch axis 3-
+A3 : Limit switch axis 3+
-A4 : Limit switch axis 4-
+A4 : Limit switch axis 4+



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PA-CONTROL
limit switch axes
1-4 PLS7
PA-CONTROL 8-axis CPU4

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-A01. 20
6. 02

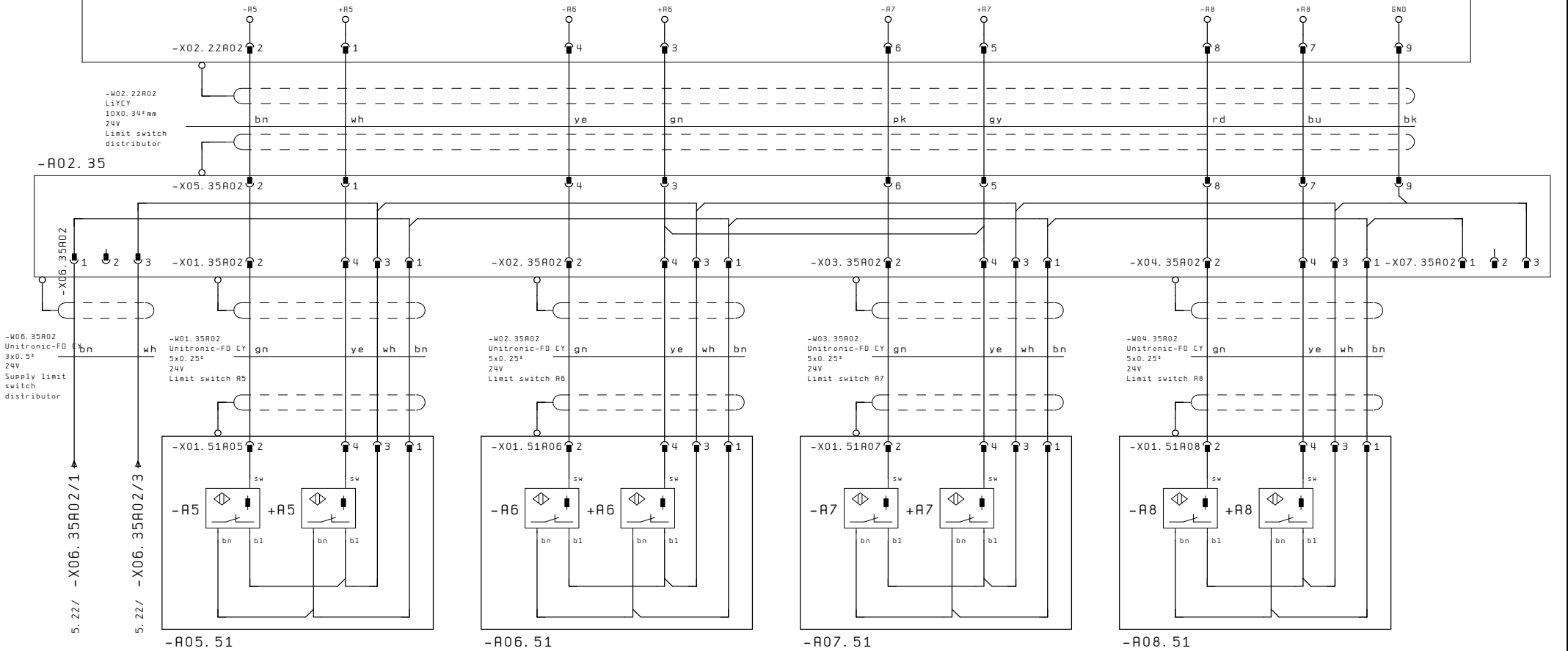
PA-CONTROL

-A02. 22
16. 02

PA-CONTROL PLS7 board

-A5 : Limit switch axis 5-
+A5 : Limit switch axis 5+
-A6 : Limit switch axis 6-
+A6 : Limit switch axis 6+

-A7 : Limit switch axis 7-
+A7 : Limit switch axis 7+
-A8 : Limit switch axis 8-
+A8 : Limit switch axis 8+



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PA-CONTROL
limit switch axes
5-8 PLS7
PA-CONTROL 8-axis CPU4

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Final customer	Drawing-no. customer	Pages
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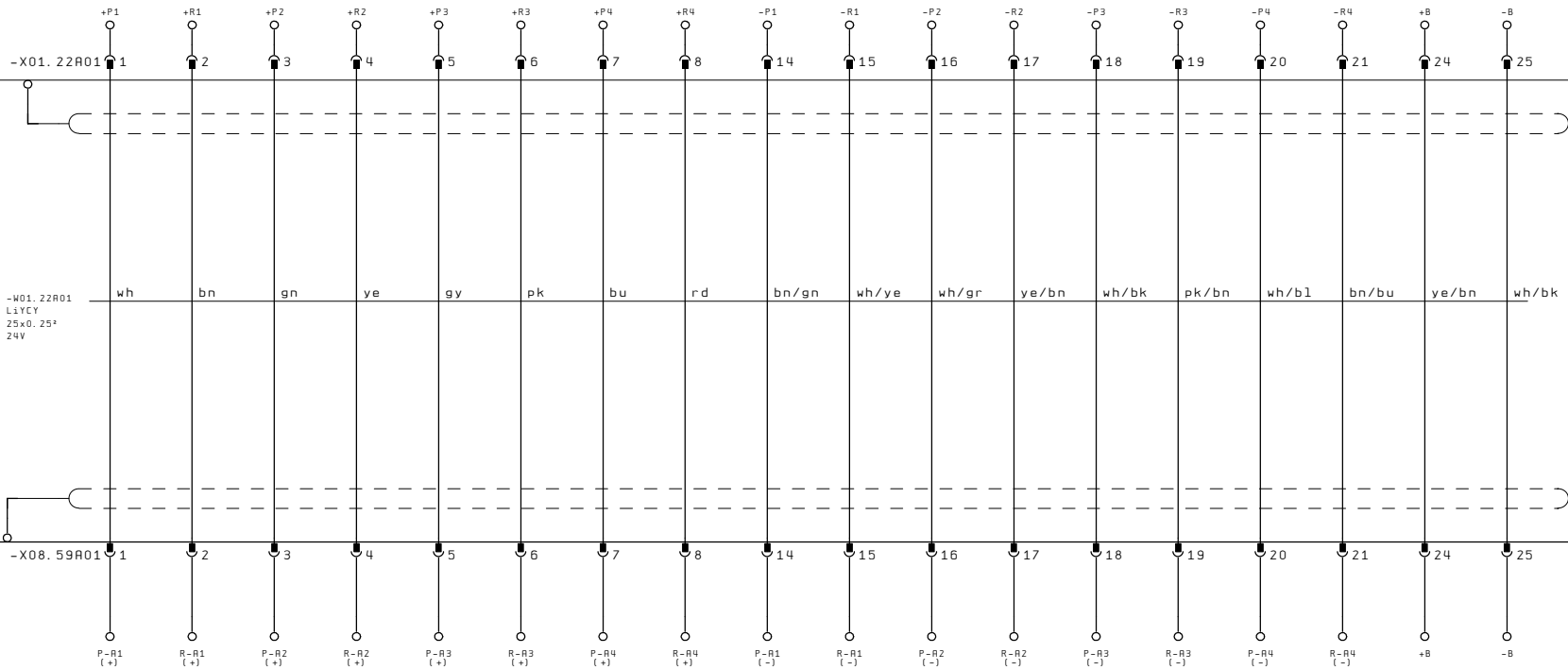
-A01. 20
6. 02

PA-CONTROL

-A01. 22
13. 02

PAC PLS7-card

P+A1: pulse	A1-axis	P+A3: pulse	A3-axis	P-A1: pulse	A1-axis	P-A3: pulse	A3-axis	+Stand-by
R+A1: direction	A1-axis	R+A3: direction	A3-axis	R-A1: direction	A1-axis	R-A3: direction	A3-axis	-Standby
P+A2: pulse	A2-axis	P+A4: pulse	A4-axis	P-A2: pulse	A2-axis	P-A4: pulse	A4-axis	
R+A2: direction	A2-axis	R+A4: direction	A4-axis	R-A2: direction	A2-axis	R-A4: direction	A4-axis	



-A01. 59
4. 02

LV-UNIT

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PLS7
pulse transmitter
card axes 1-4

PA-CONTROL 8-axis CPU4

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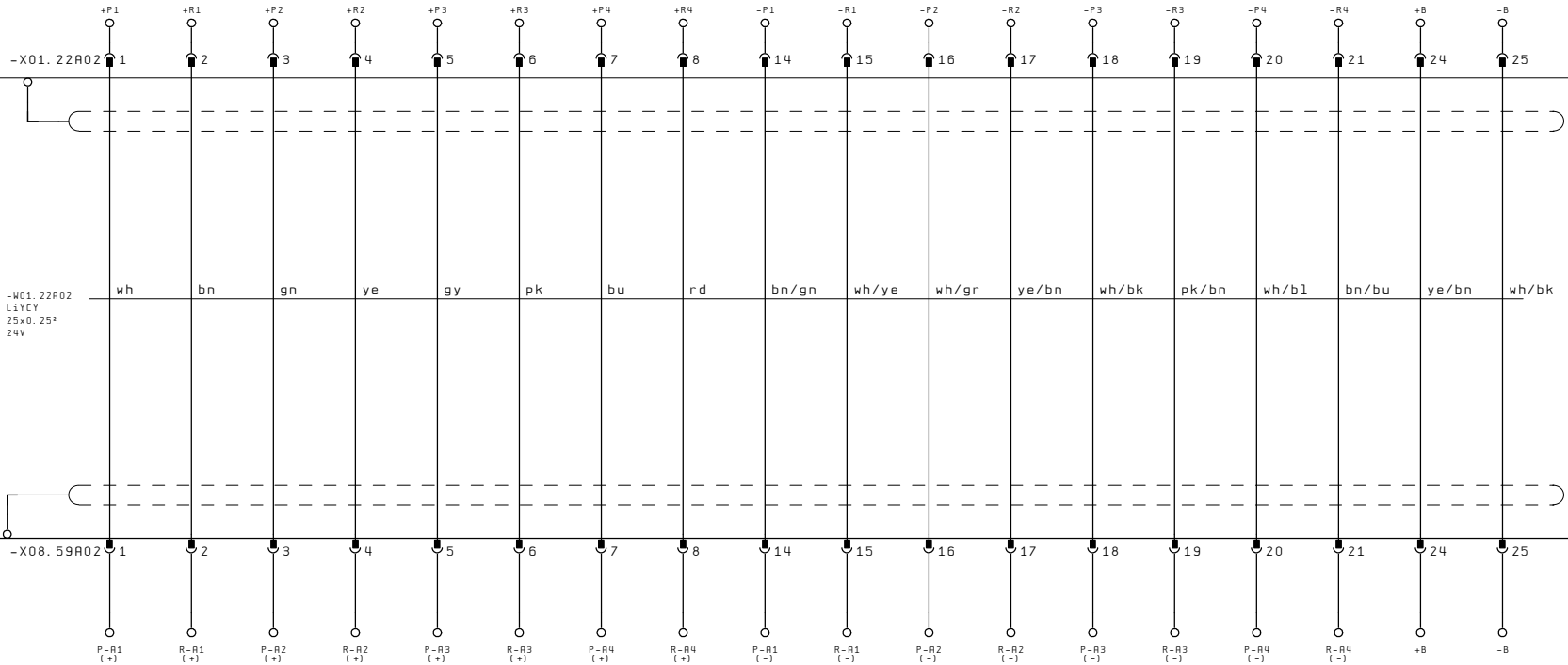
-A01. 20
6. 02

PA-CONTROL

-A02. 22
14. 02

PAC PLS7-card

P+A5: pulse	A5-axis	P+A7: pulse	A7-axis	P+A5: pulse	A5-axis	P+A7: pulse	A7-axis	+Stand-by
R+A5: direction	A5-axis	R+A7: direction	A7-axis	R-A5: direction	A5-axis	R-A7: direction	A7-axis	-Standby
P+A6: pulse	A6-axis	P+A8: pulse	A8-axis	P+A6: pulse	A6-axis	P+A8: pulse	A8-axis	
R+A6: direction	A6-axis	R+A8: direction	A8-axis	R-A6: direction	A6-axis	R-A8: direction	A8-axis	



-A02. 59
5. 02

LV-UNIT

Editor	Date	
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PLS7
pulse transmitter
card axes 5-8

PA-CONTROL 8-axis CPU4

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Final customer	Drawing-no. customer	Pages
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-A01.40
4.02

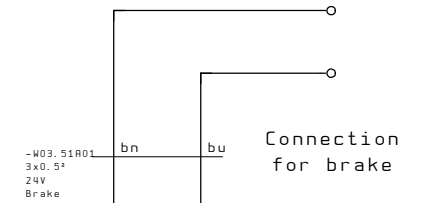
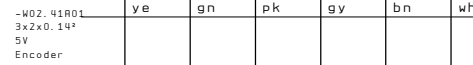
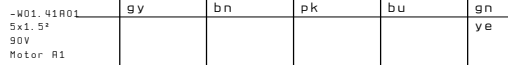
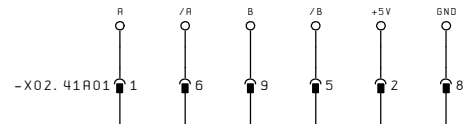
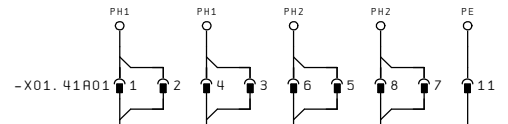
LV-UNIT

-A01.41

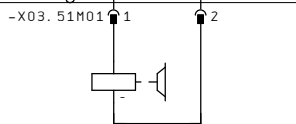
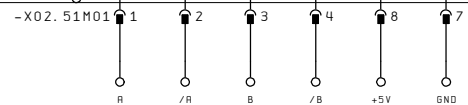
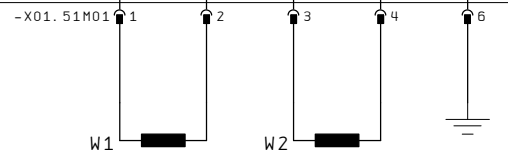
Power card 1

(X2) Motor

(X4) ENC



-M01.51




Motor

Rotation monitoring

Brake

Optional

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Power card 1
A1-axis 2
phase stepper motor
PA-CONTROL 8-axis CPU4

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-R01.40
4.02

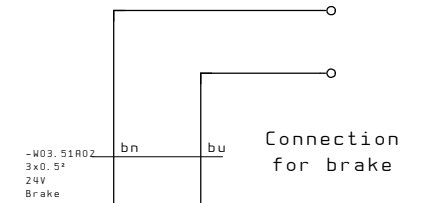
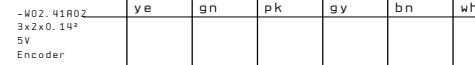
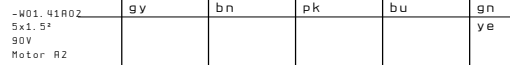
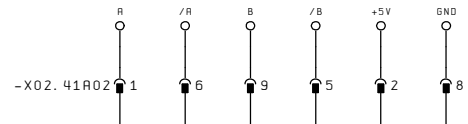
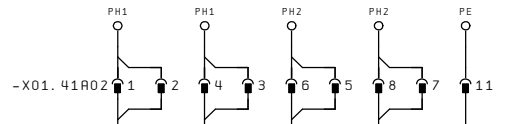
LV-UNIT

-R02.41

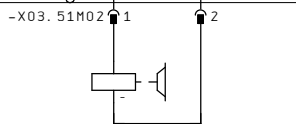
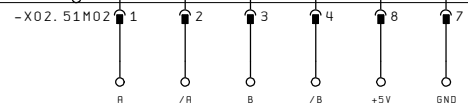
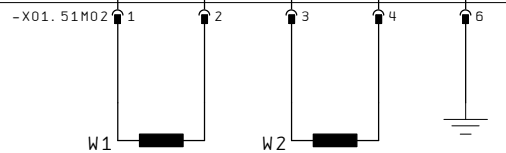
Power card 2

(X2) Motor

(X4) ENC



-M02.51



Motor

Rotation monitoring

Brake

Optional

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Power card 2
A2-axis 2
phase stepper motor
PA-CONTROL 8-axis CPU4

Customer	
Final customer	

Drawing-no. IEF	1027192
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-A01.40
4.02

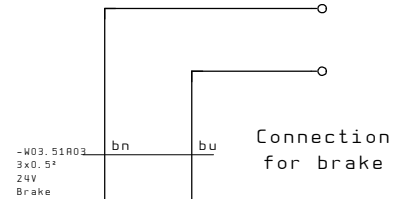
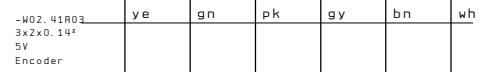
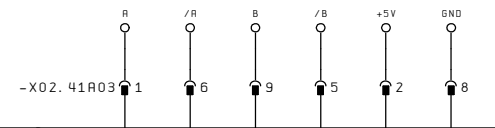
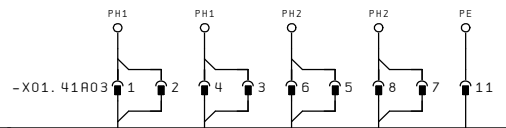
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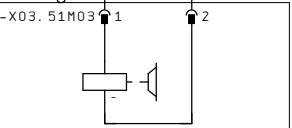
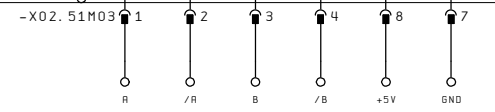
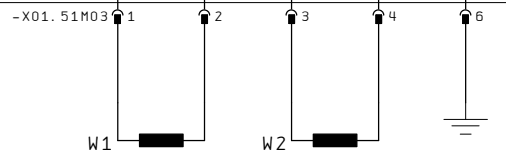
Power card 3

(X2) Motor

(X4) ENC



-M03.51




Motor

Rotation monitoring

Brake

Optional

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Power card 3
A3-axis 2
phase stepper motor
PA-CONTROL 8-axis CPU4

Customer	Drawing-no. IEF	Page no.
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-A01.40
4.02

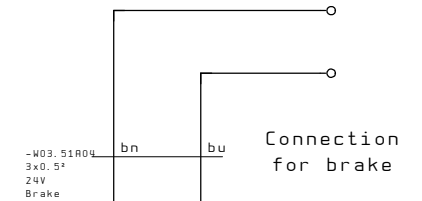
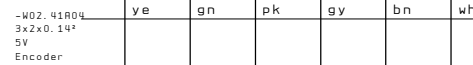
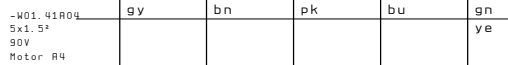
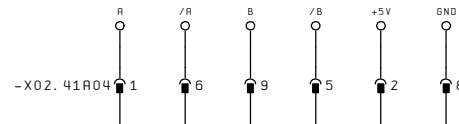
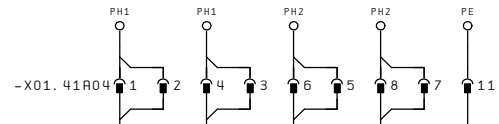
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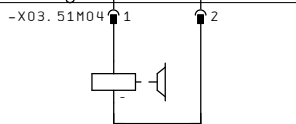
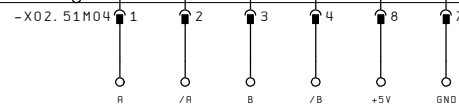
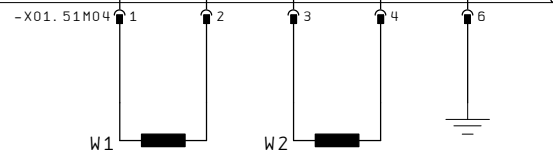
Power card 4

(X2) Motor

(X4) ENC



-M04.51



Motor

Rotation monitoring

Brake

Optional

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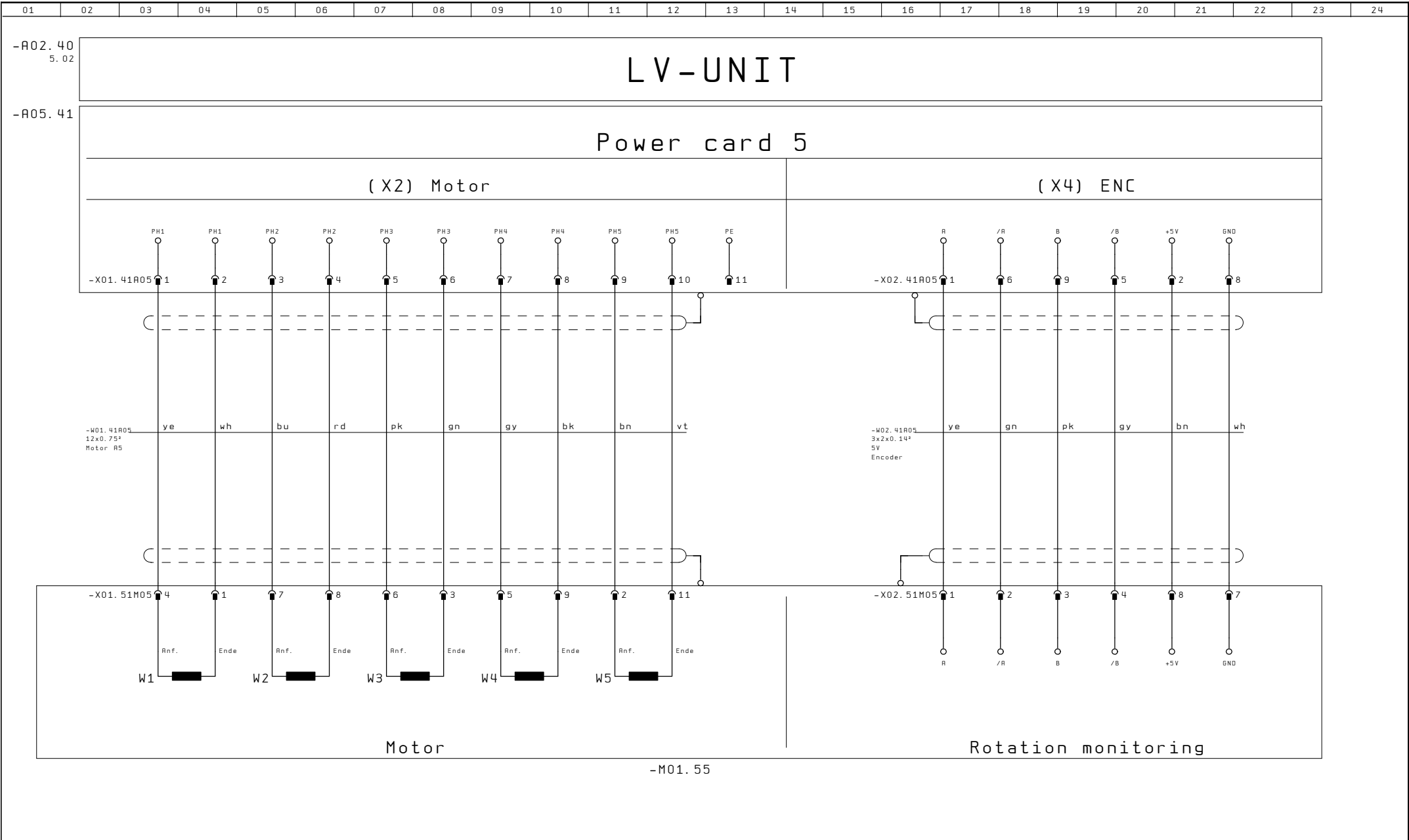


Power card 4
A4-axis 2
phase stepper motor
PA-CONTROL 8-axis CPU4

Customer	
Final customer	

Drawing-no. IEF	1027192
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-R02. 40
5. 02

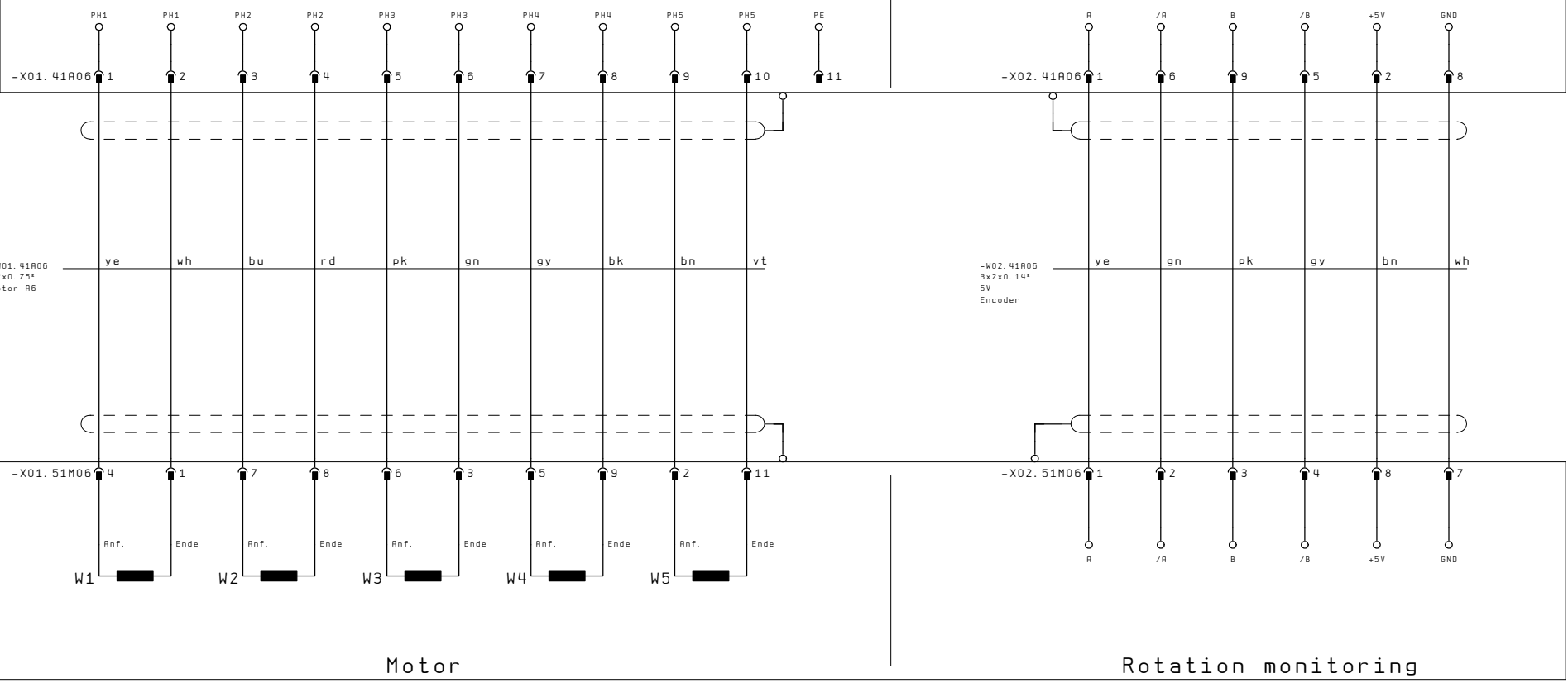
LV-UNIT

-R06. 41

Power card 6

(X2) Motor

(X4) ENC



Motor

Rotation monitoring

-M01. 56

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

Power card 6
A6-axis 5
phase stepper motor
PA-CONTROL 8-axis CPU4

Customer	Drawing-no. IEF	Page no.
	1027192	22
Final customer	Drawing-no. customer	Pages
		24

-R02. 40
5. 02

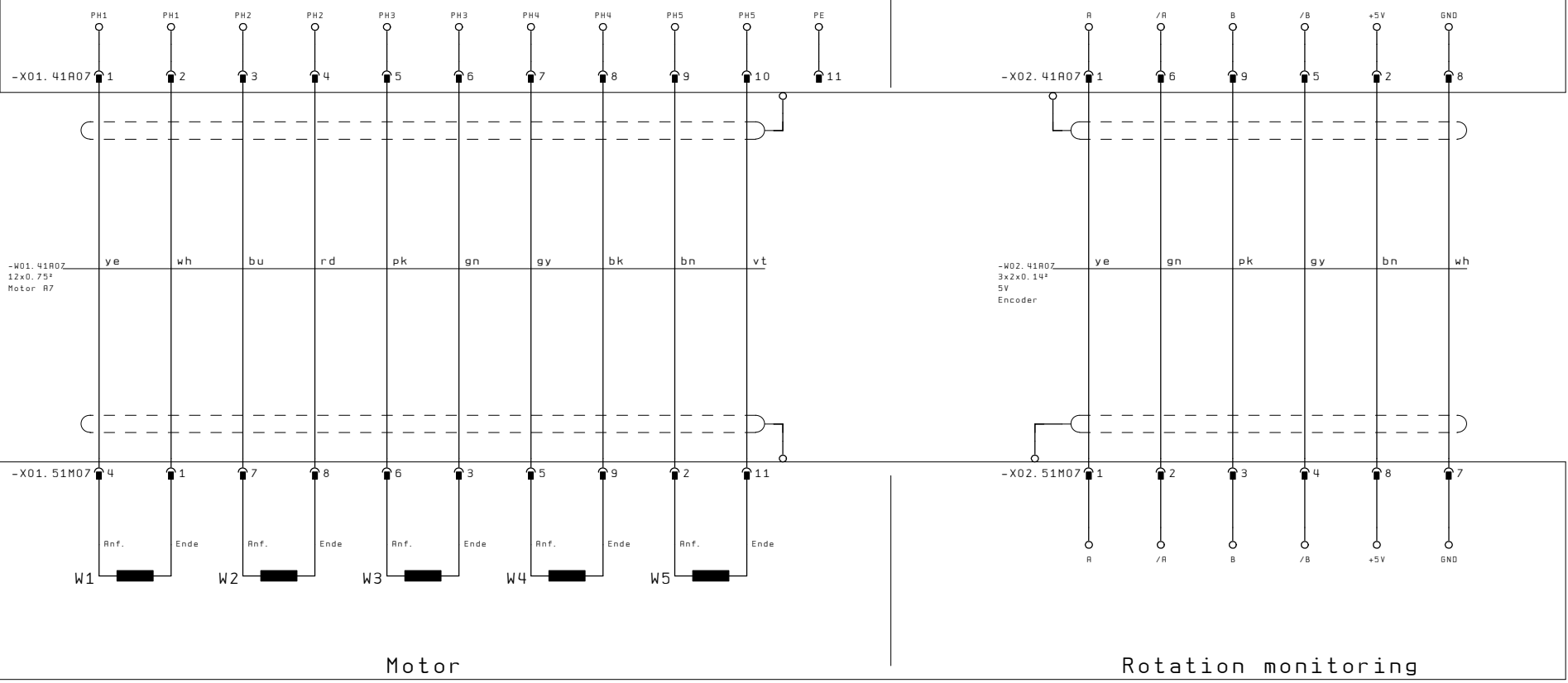
LV-UNIT

-R07. 41

Power card 7

(X2) Motor

(X4) ENC



Motor

Rotation monitoring

-M01. 57

Editor		Date	
Designer:	VOL	11.10.02	
Modification:	VOL	28.06.05	
Print:		11.01.07	
System:	Place:		



Power card 7
A7-axis 5-phase
stepper motor
PA-CONTROL 8-axis CPU4

Customer	Drawing-no. IEF	Page no.
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Final customer	Drawing-no. customer	Pages
		24

-A02. 40
5. 02

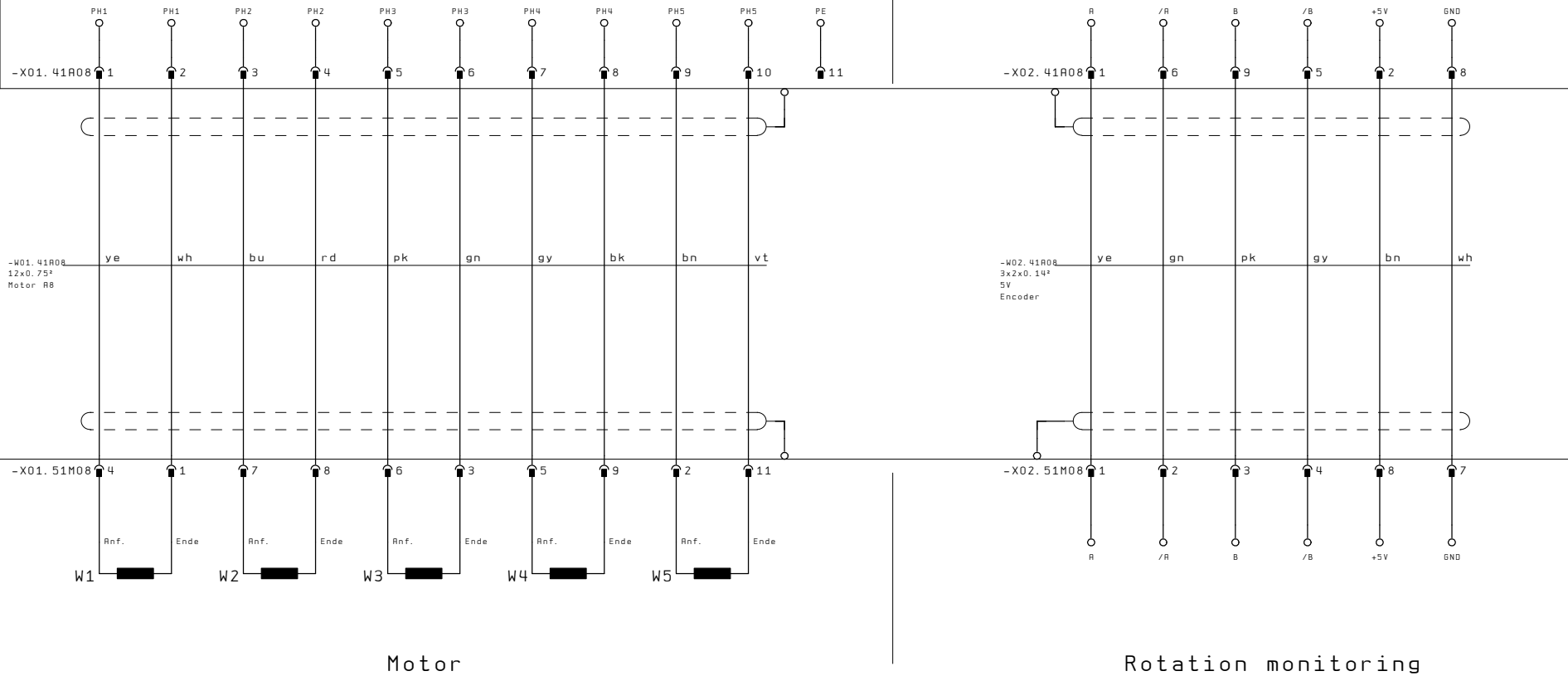
LV-UNIT

-A08. 41


Power card 8

(X2) Motor

(X4) ENC



-M01. 58

Editor		Date	
Designer:	VOL	11.10.02	
Modification:	VOL	28.06.05	
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System:	Place:		

Power card 8
A8-axis 5-phase
stepper motor
PA-CONTROL 8-axis CPU4

Customer	Drawing-no. IEF	Page no.
	1027192	24
Final customer	Drawing-no. customer	Pages
		24