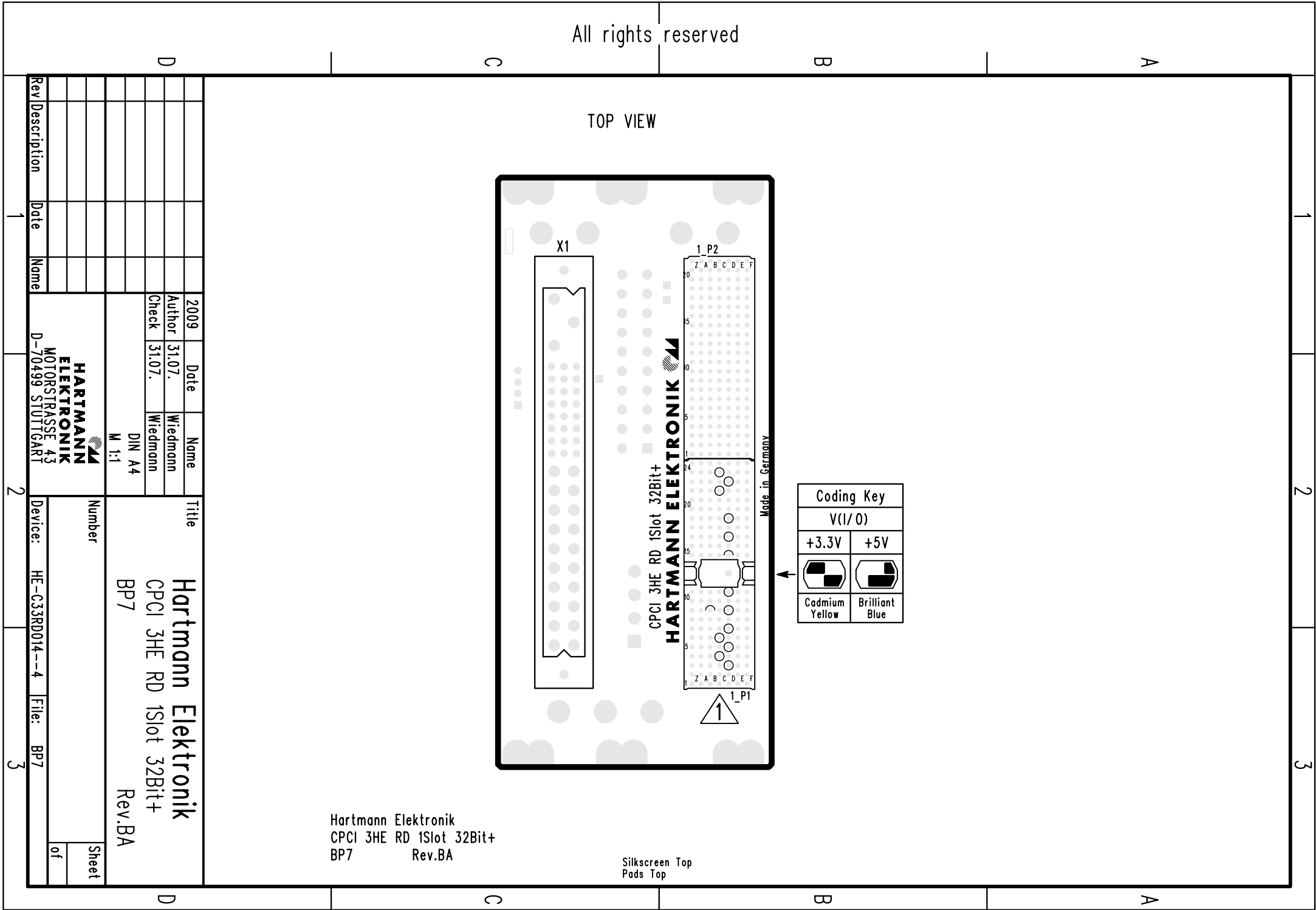


[illegible][illegible]

1 2 3

A B C D

TOP VIEW

1 P2

20 15 10 5 1

Z A B C D E F

1 P1

20 15 10 5 1

Z A B C D E F

Coding Key

V(I/O)

+3.3V +5V

Cadmium Yellow Brilliant Blue

Hartmann Elektronik

Made in Germany

CPCI 3HE RD 1Slot 32Bit+ BP7

X1

1

Hartmann Elektronik

CPCI 3HE RD 1Slot 32Bit+ BP7 Rev.BA

Silkscreen Top Pads Top

Rev.BA

2009 31.07. 31.07. Wiedmann Wiedmann

DIN A4 M 1:1

Number

BP7

Rev.BA

Device: HE-C33RD014--4 File: BP7

Sheet 1 of 1

Rev Description Date Name

1

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A B C D

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[illegible]

1 2 3

A B C D

TOP VIEW

1 P2

20 15 10 5 1

Z A B C D E F

1 P1

20 15 10 5 1

Z A B C D E F

Coding Key

V(I/O)

+3.3V +5V

Cadmium Yellow Brilliant Blue

HARTMANN ELEKTRONIK

Made in Germany

CPCI 3HE RD 1Slot 32Bit+ BP7

X1

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
BP7 Rev.BA

Rev.BA

Number

BP7

Device: HE-C33RD014--4 File: BP7

Sheet 1 of 1

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[illegible]

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Without geographic addressing on request

BOTTOM VIEW

Shrouds IP1
on request

Busbar for +5V keying SR3

Busbar for +3.3V keying SR5

Silkscreen Bottom
Pads Bottom

Rev	Description	Date	Name
1			
2			
3			

Author	Date	Name
Wiedmann	31.07.	
Wiedmann	31.07.	

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

DIN A4
M 1:1

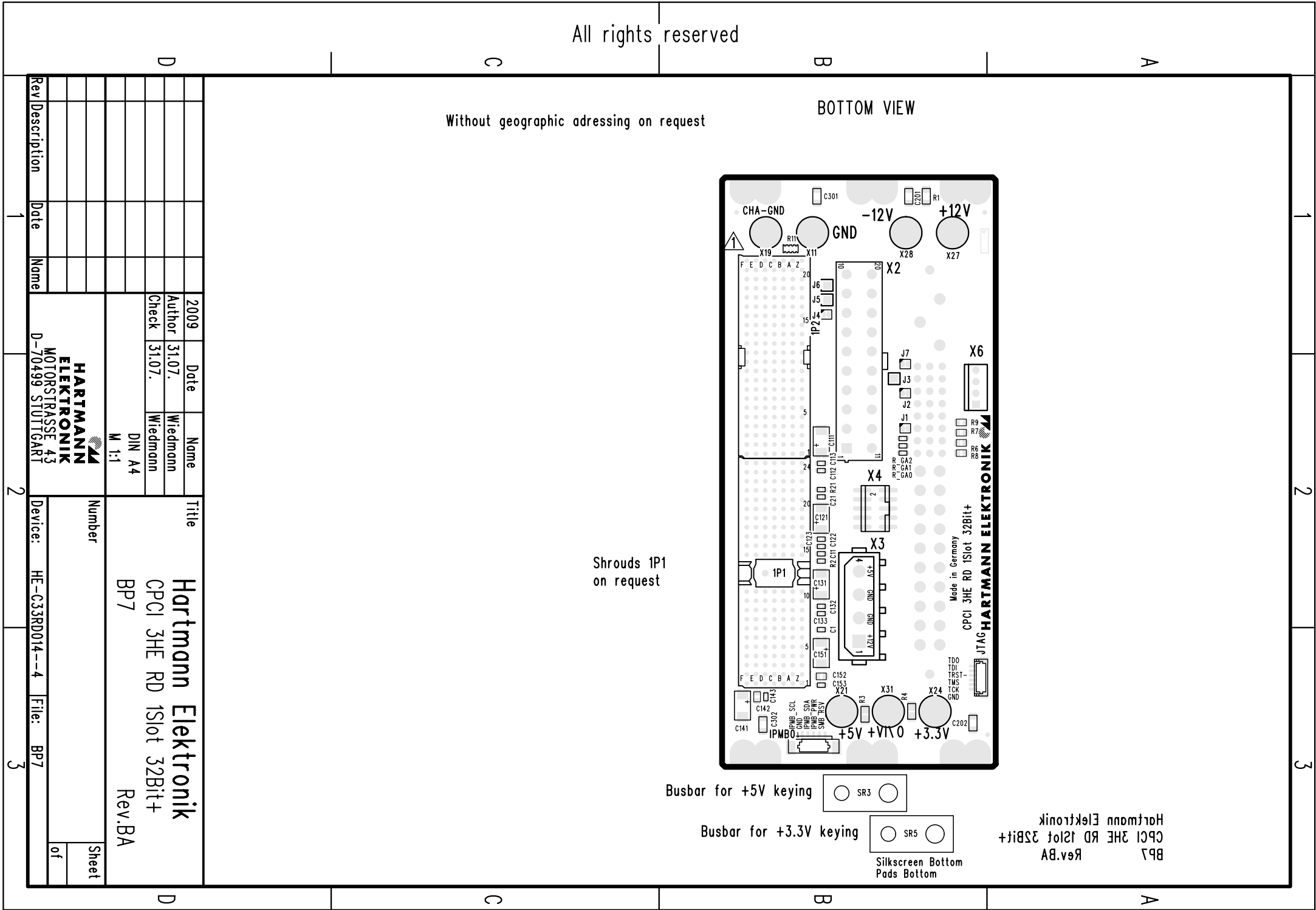
Title
Hartmann Elektronik
CPCl 3HE RD 1Slot 32Bit+
BP7
Rev.BA

Number

Device: HE-C33RD014--4 File: BP7

Sheet
of

Hartmann Elektronik
CPCl 3HE RD 1Slot 32Bit+
Rev.BA
BP7



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Without geographic addressing on request

Shrouds 1P1 on request

A
B
C
D

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HARTMANN ELEKTRONIK
 MOTORSTRASSE 43
 D-70499 STUTTGART

2009 Date Name
 Author 31.07. Wiedmann
 Check 31.07. Wiedmann
 DIN A4
 M 1:1

Rev Description Date Name

Hartmann Elektronik
 CPCI 3HE RD 1Slot 32Bit+
 BP7
 Rev.BA

Number

Device: HE-C33RD014--4 File: BP7

Sheet of

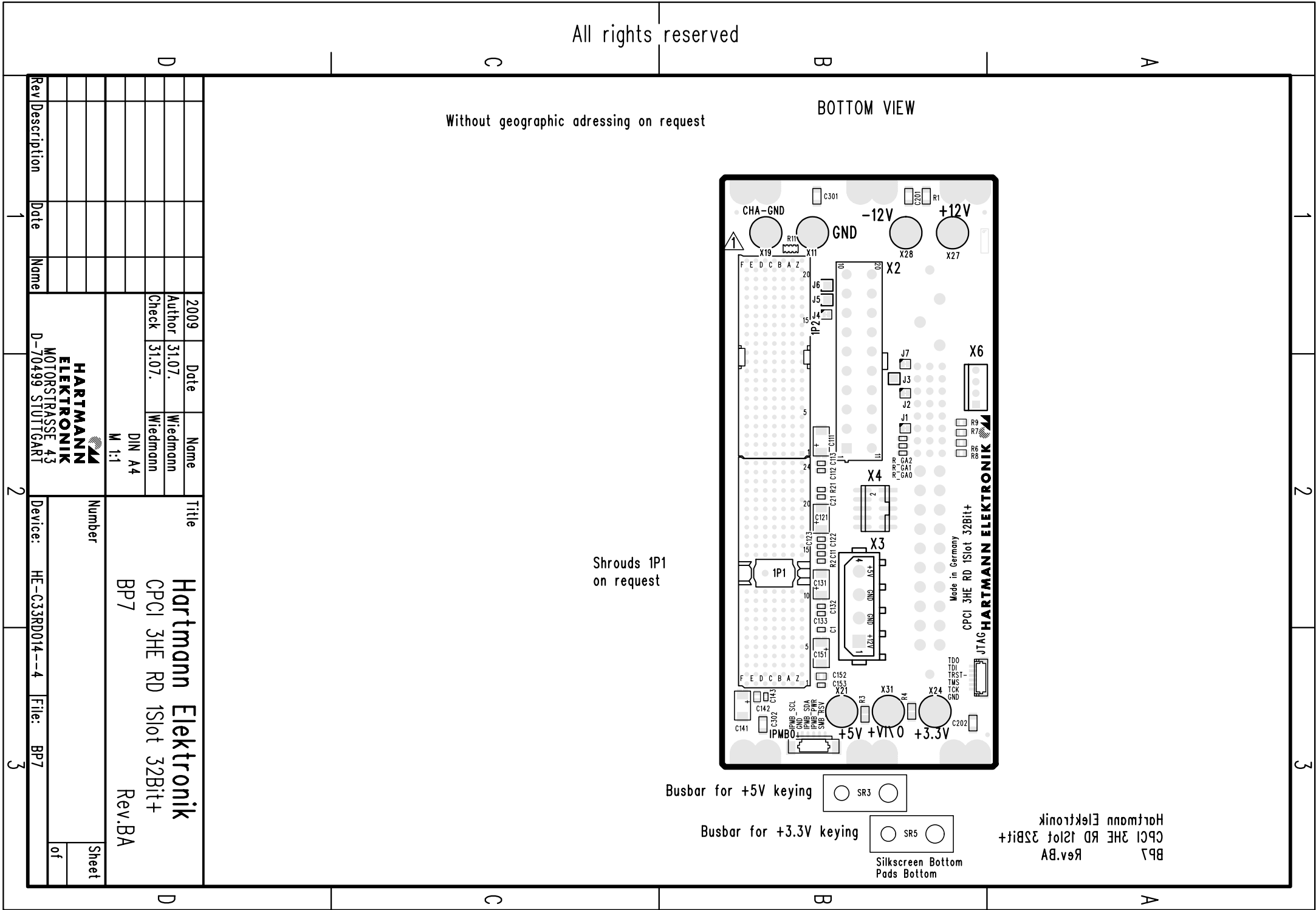
BOTTOM VIEW

Busbar for +5V keying

Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

Hartmann Elektronik
 CPCI 3HE RD 1Slot 32Bit+
 Rev.BA
 BP7

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Without geographic addressing on request

Shrouds 1P1 on request

BOTTOM VIEW

Busbar for +5V keying

Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

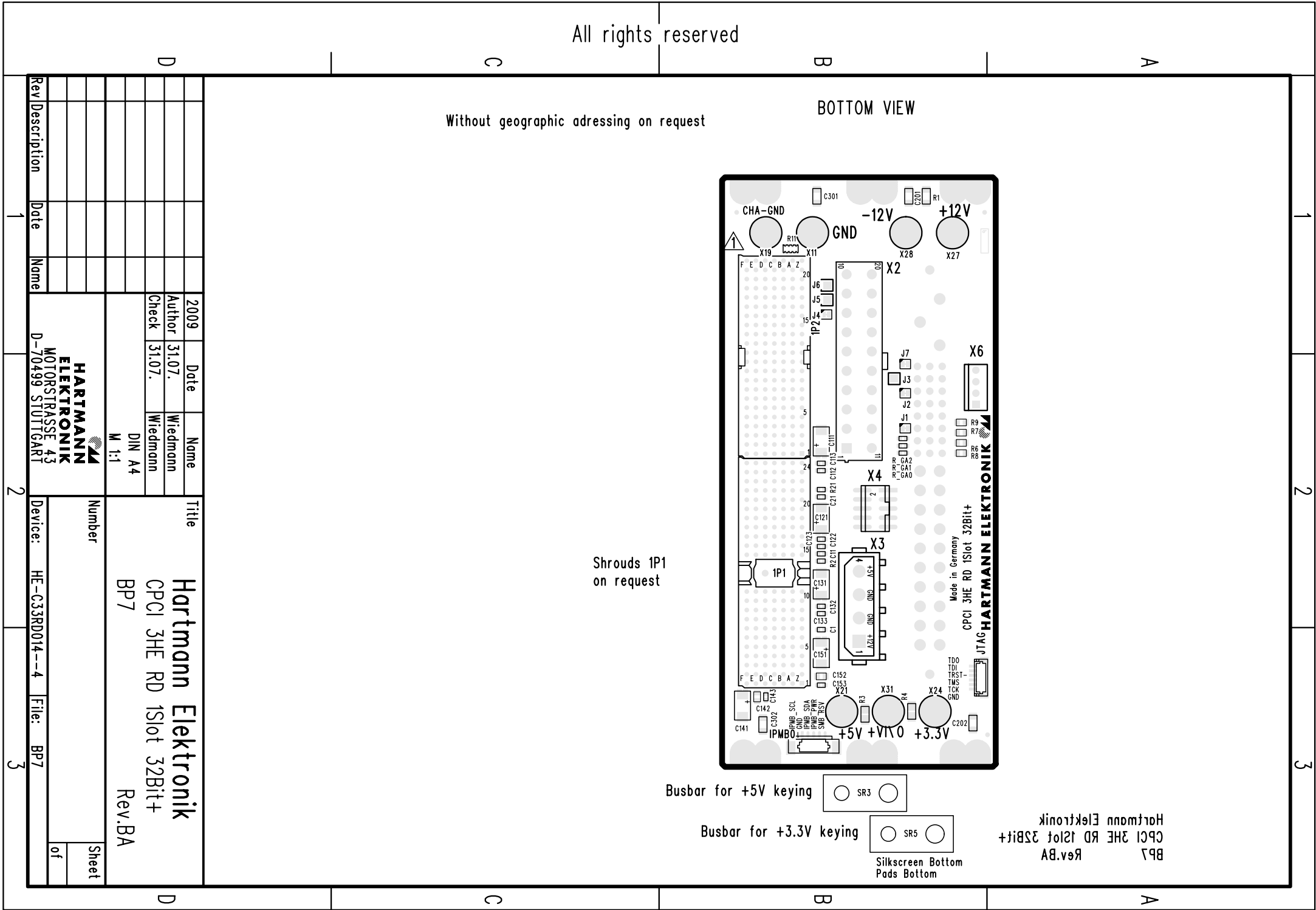
HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Rev.BA

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
Rev.BA

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Rev	Description	Date	Name	Title	Number	Sheet	of
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3							



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D

Without geographic addressing on request

Shrouds 1P1 on request

BOTTOM VIEW

Busbar for +5V keying

Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Rev.BA

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
Rev.BA

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HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Rev.BA

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
Rev.BA

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

Rev.BA

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
Rev.BA

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

A
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C
D

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Rev.BA

CPCI 3HE RD 1Slot 32Bit+

Hartmann Elektronik

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Without geographic addressing on request

BOTTOM VIEW

Shrouds 1P1
on request

Busbar for +5V keying SR3

Busbar for +3.3V keying SR5

Silkscreen Bottom
Pads Bottom

Rev	Description	Date	Name
1			

Author	Date	Name
Wiedmann	31.07.	2009
Check	31.07.	

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

DIN A4
M 1:1

Title: Hartmann Elektronik
CPCl 3HE RD 1Slot 32Bit+
BP7
Rev.BA

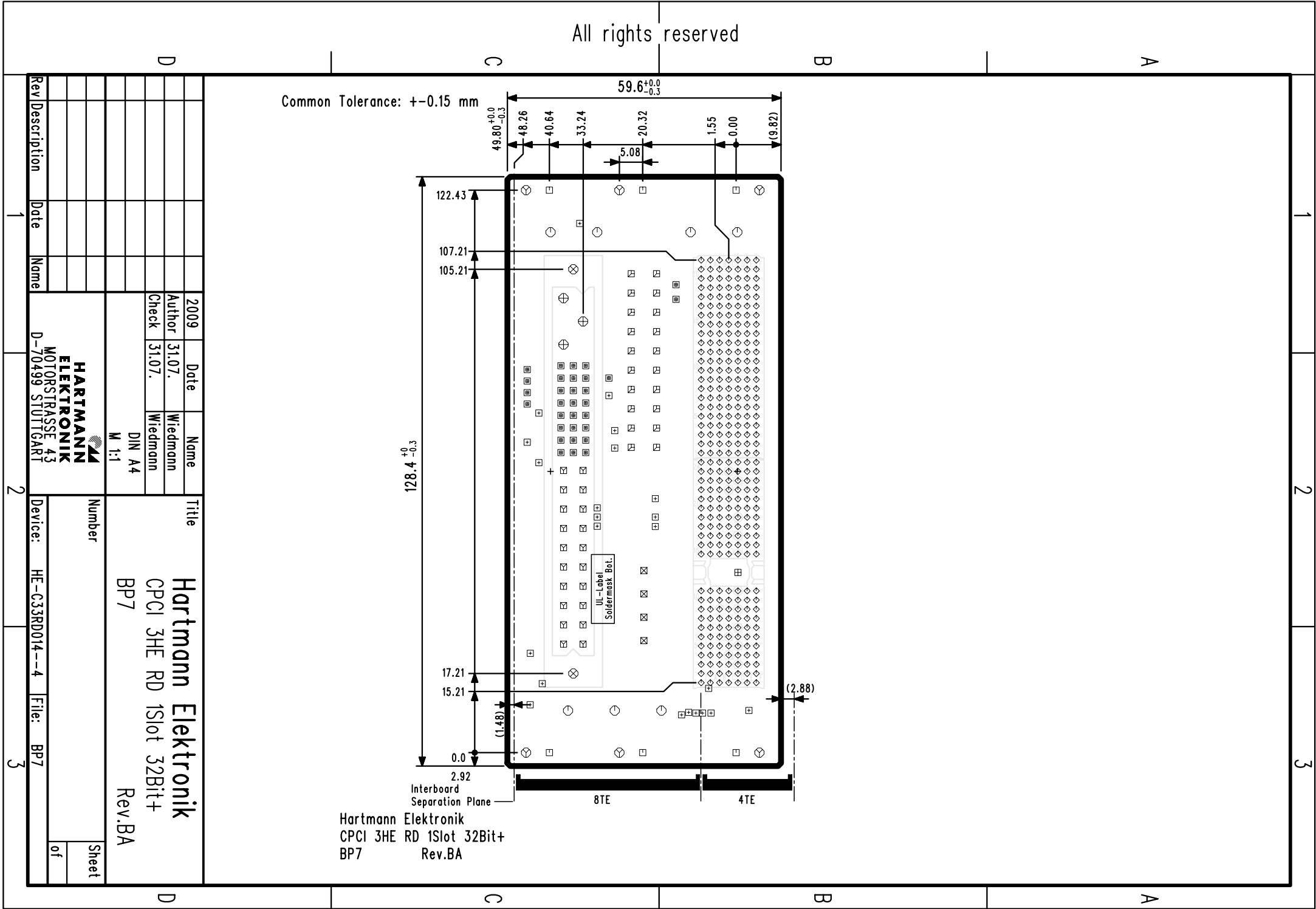
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Device: HE-C33RD014--4 File: BP7

Sheet of

Hartmann Elektronik
CPCl 3HE RD 1Slot 32Bit+
Rev.BA
BP7

[illegible]

[illegible][illegible]

1 2 3

A B C D

All rights reserved

Common Tolerance: ± 0.15 mm

59.6 $^{+0.0}_{-0.3}$

49.80 $^{+0.0}_{-0.3}$

48.26

40.64

33.24

20.32

5.08

1.55

0.00

(9.87)

122.43

107.21

105.21

128.4 $^{+0}_{-0.3}$

17.21

15.21

0.0

2.92

Interboard Separation Plane

8TE

4TE

(2.88)

(9.87)

Uit-Label Soldermask Bot.

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
BP7
Rev.BA

Hartmann Elektronik
MOTORSTRASSE 43
D-70499 STUTTGART

2009

31.07.

31.07.

Wiedmann

Wiedmann

DIN A4

M 1:1

Number

Title

Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
BP7
Rev.BA

Rev.Description

Date

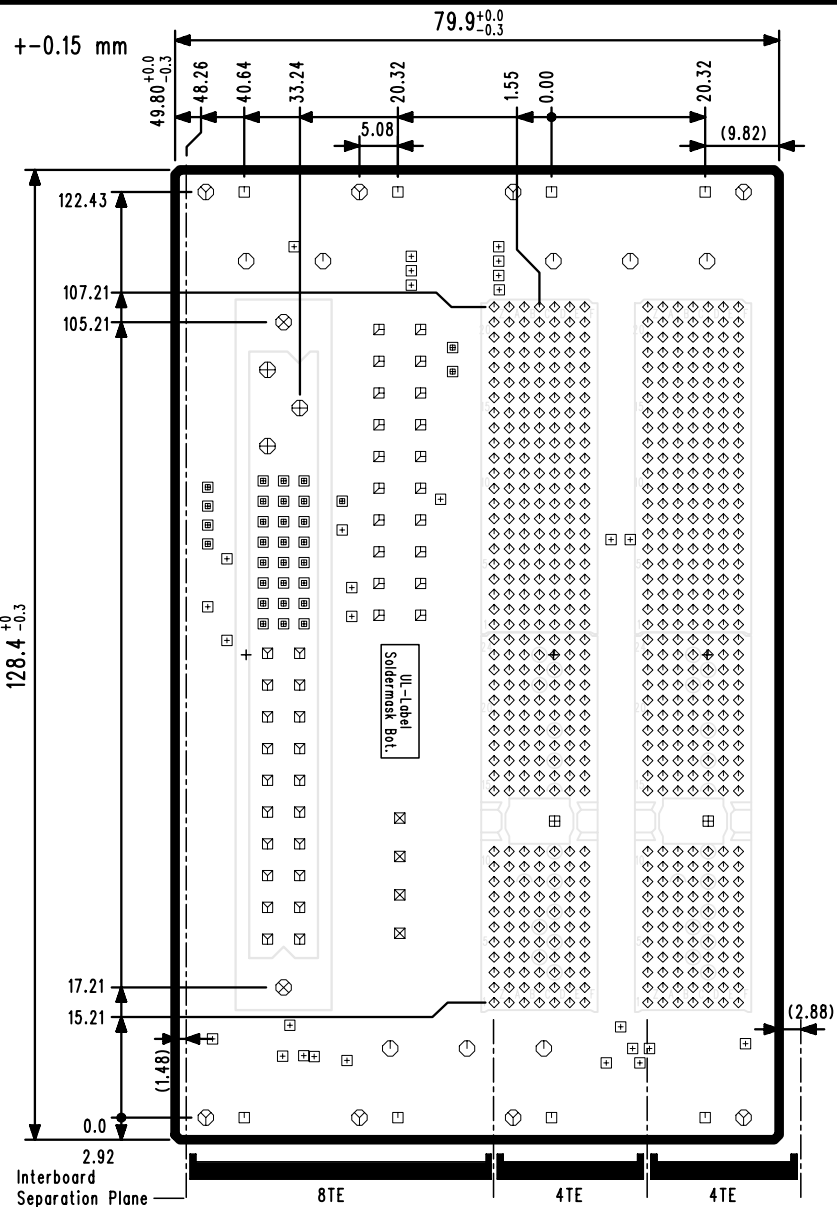
Name

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Sheet of



Hartmann Elektronik
CPCI 3HE RD 2Slot 32Bit+
BP6 Rev.BA

					2009	Date	Name	Title Hartmann Elektronik CPCI 3HE RD 2Slot 32Bit+ BP6 Rev.BA				
					Author	28.07.	Wiedmann					
					Check	28.07.	Wiedmann					
					DIN A4 M 1:1							
					 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet			
Rev	Description	Date	Name	D-70499 STUTTGART				Device:	HE-C33RD024--4	File:	BP6	of

↑

Silkscreen Top
Pads Top

Rev Description		Date	Name	2004	Date	Name	Title	Number		Device:	File:	Sheet
1					2004	10.09.	Wiedmann	Hartmann Elektronik	HE-C33RD034--4		BUS845BA	1
					10.09.	Wiedmann	CPCI 3HE RD 3Slot 32Bit+					2
					Check	Wiedmann	BUS845					3
					DIN A4			Rev.BA				
					M 1:1							
					HARTMANN ELEKTRONIK							
					MOTORSTRASSE 43							
					D-70499 STUTTGART							

TOP VIEW

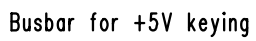
Hartmann Elektronik
CPCI 3HE RD 3Slot 32Bit+
BUS845 Rev.BA

Silkscreen Top
Pads Top

Coding Key

V(I/O)	
+3.3V	+5V
Cadmium Yellow	Brilliant Blue

Shrouds 1P1- 3P1
on request



Silkscreen Bottom
Pads Bottom

2004	Date	Name	Hartmann Elektronik CPCI 3HE RD 3Slot 32Bit+ BUS845 Rev.BA	
Author	10.09.	Wiedmann		
Check	10.09.	Wiedmann		
DIN A4 M 1:1				
 HARTMANN ELEKTRONIK MOTORSTRASSE 43			Number	Sheet of

1 2 3

A B C D

Common Tolerance: $\pm 0.15 \text{ mm}$

100.2 $^{+0.0}_{-0.3}$

49.80 $^{+0.0}_{-0.3}$

48.26

40.64

33.24

20.32

1.55

0.00

4 x 20.32 = 81.28

5.08

(9.82)

122.43

107.21

105.21

128.4 $^{+0}_{-0.3}$

17.21

15.21

0.0

2.92

Interboard Separation Plane

8TE

4TE

4TE

4TE

(2.88)

(1.48)

UL-Label Soldermask Bot.

Hartmann Elektronik
CPCI 3HE RD 3Slot 32Bit+
BUS845 Rev.BA

2004
10.09.
10.09.
DIN A4
M 1:1

Hartmann Elektronik
MOTORSTRASSE 43
D-70499 STUTTGART

RevDescription Date Name

1

2

3

1

2

3

A

B

C

D

Sheet
of

Rev.BA

BUS845

CPCI 3HE RD 3Slot 32Bit+

Hartmann Elektronik

1 2 3

A B C D

Common Tolerance: $\pm 0.15 \text{ mm}$

100.2 $^{+0.0}_{-0.3}$

49.80 $^{+0.0}_{-0.3}$

48.26

40.64

33.24

20.32

1.55

0.00

4 x 20.32 = 81.28

5.08

(9.82)

122.43

107.21

105.21

128.4 $^{+0}_{-0.3}$

17.21

15.21

0.0

2.92

Interboard Separation Plane

8TE

4TE

4TE

4TE

(2.88)

(1.48)

UL-Label Soldermask Bot.

Hartmann Elektronik
CPCI 3HE RD 3Slot 32Bit+
BUS845 Rev.BA

2004
10.09.
10.09.
DIN A4
M 1:1

Hartmann Elektronik
MOTORSTRASSE 43
D-70499 STUTTGART

RevDescription Date Name

1

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3

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A

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Sheet
of

Rev.BA

BUS845

CPCI 3HE RD 3Slot 32Bit+

Hartmann Elektronik

The diagram illustrates the layout of the HARTMANN ELEKTRONIK 3HE RD 4Slot 32Bit+ expansion card. The card is shown in a perspective view, divided into four vertical slots. Each slot has a different connector type: X1, 4_P2, 3_P2, 2_P2, and 1_P2. The card is labeled 'HARTMANN ELEKTRONIK' and 'CPCI 3HE RD 4Slot 32Bit+'. The card is shown in a perspective view with a grid of pins and a central connector area.

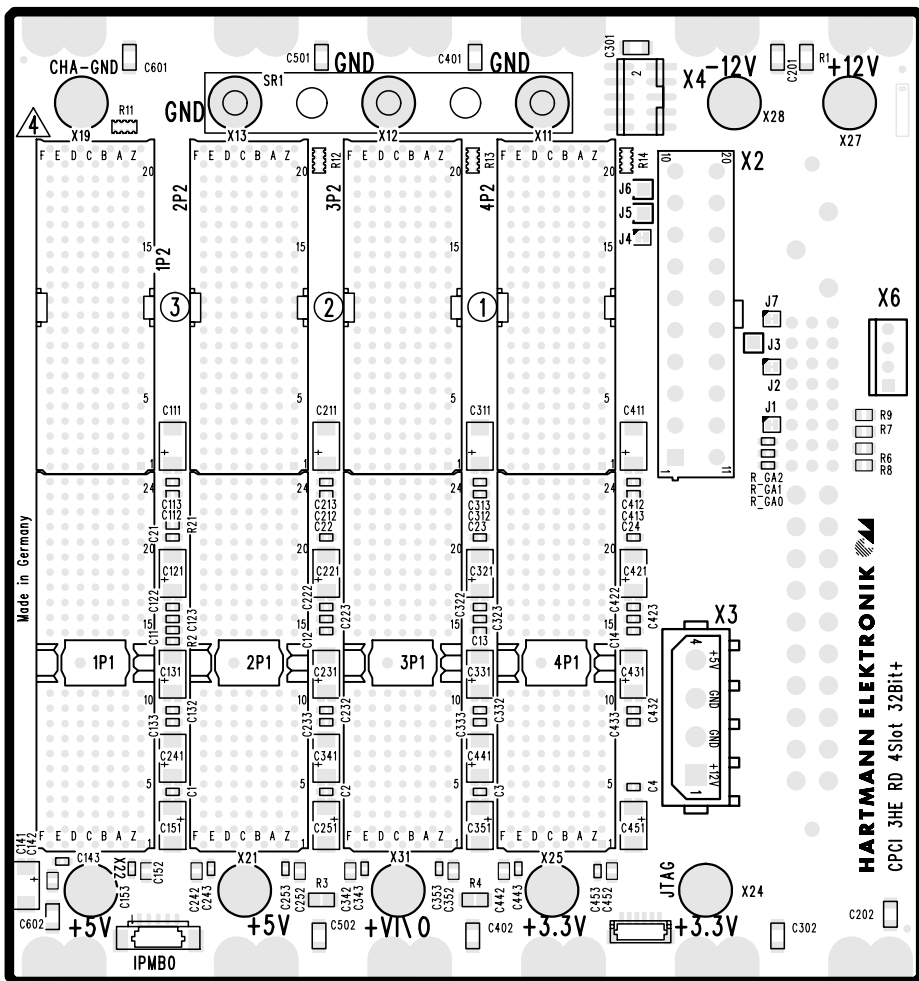
↑

Silkscreen Top
Pads Top

1	2	3

BOTTOM VIEW

Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND-Sense (+3.3V)
7	+5V	8	+5V-Sense
9	GND	10	GND-Sense (+5V)



Shrouds 1P1- 4P1
on request

Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

JTAG
Pin Assignment

Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO

Busbar for +5V keying

Busbar for +3.3V keying

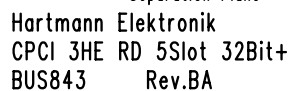
Silkscreen Bottom
Pads Bottom

BU2844 Rev.BA
CPCI 3HE RD 4Slot 32Bit+
Hartmann Elektronik

[illegible]

↑

Silkscreen Top
Pads Top



D		Author	04.11.	Wiedmann
D		Check	04.11.	Wiedmann

Coding Key	
V(I/O)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue

Silkscreen Top
Pads Top

Hartmann Elektronik
CPCI 3HE RD 6Slot 32Bit+
BUS840 Rev.BA

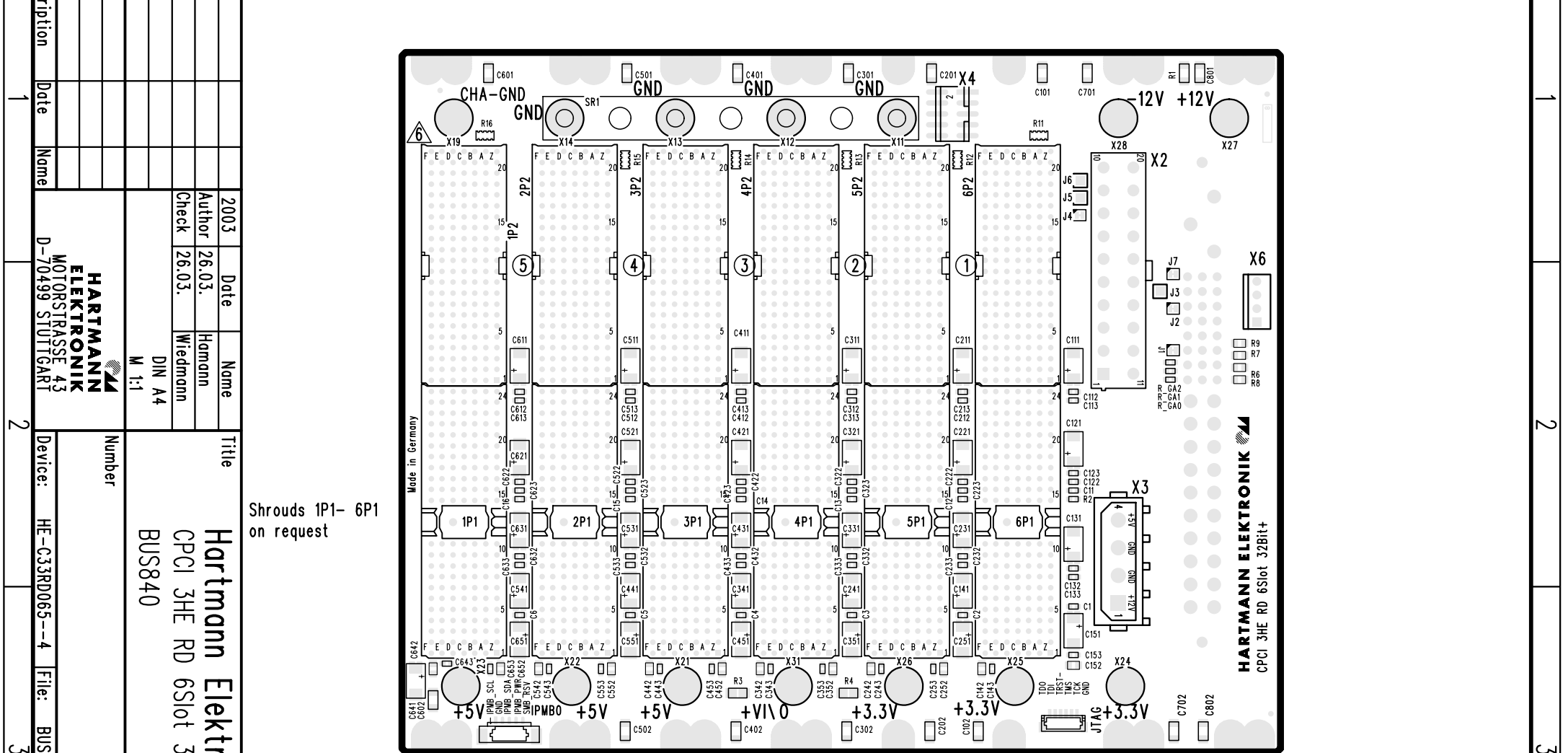
HARTMANN ELEKTRONIK

Made in Germany

CPCI 3HE RD 6Slot 32Bit+

Hartmann Elektronik
CPCI 3HE RD 6Slot 32Bit+
BUS840 Rev.BA

[illegible]

[illegible]

SR3

☐ SR5 ☐ ☐ ☐ ☐

☐ SR4 ☐	☐	☐	☐	☐	☐
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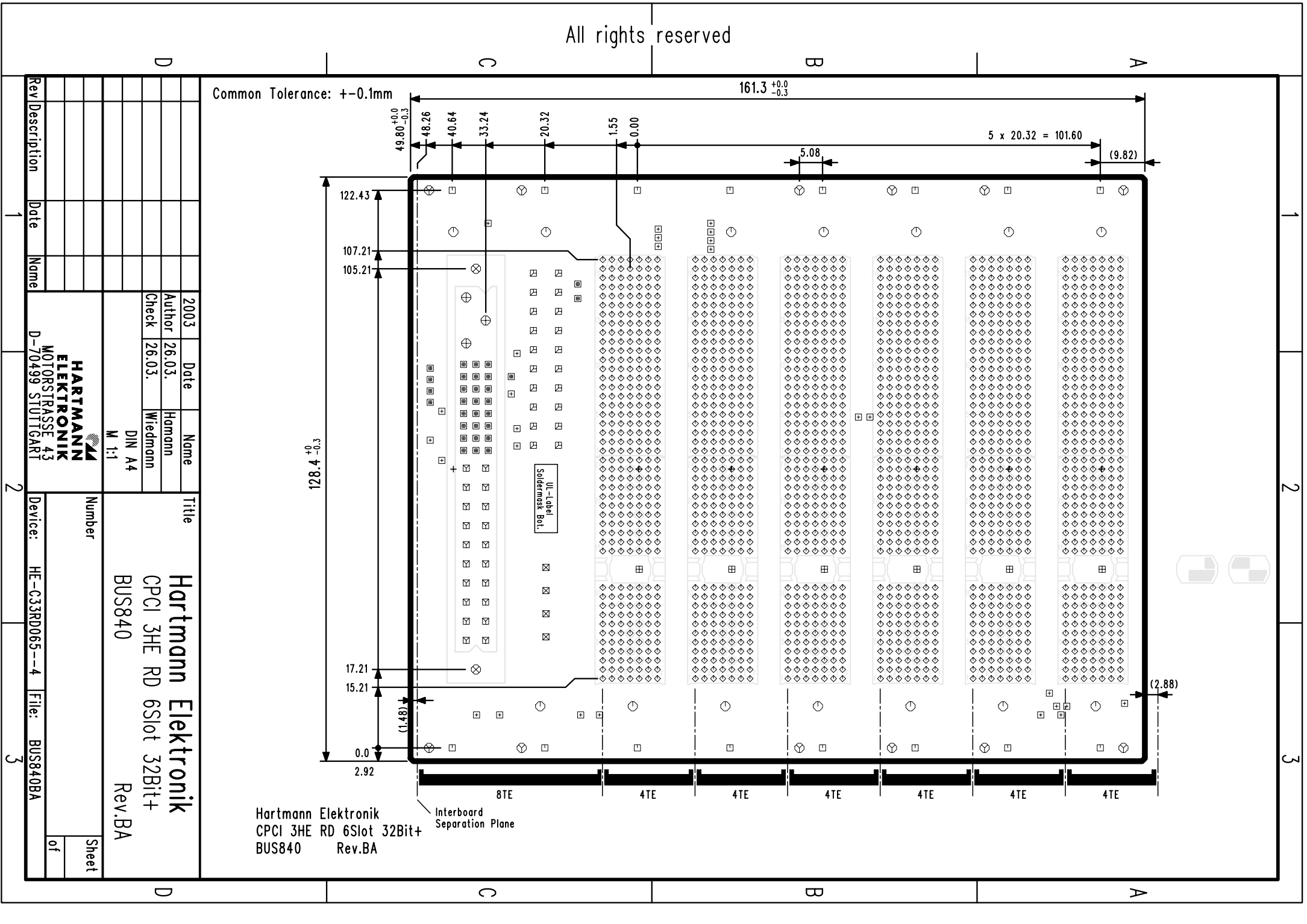
Busbar for +5V keying

Busbar for +3.3V keying

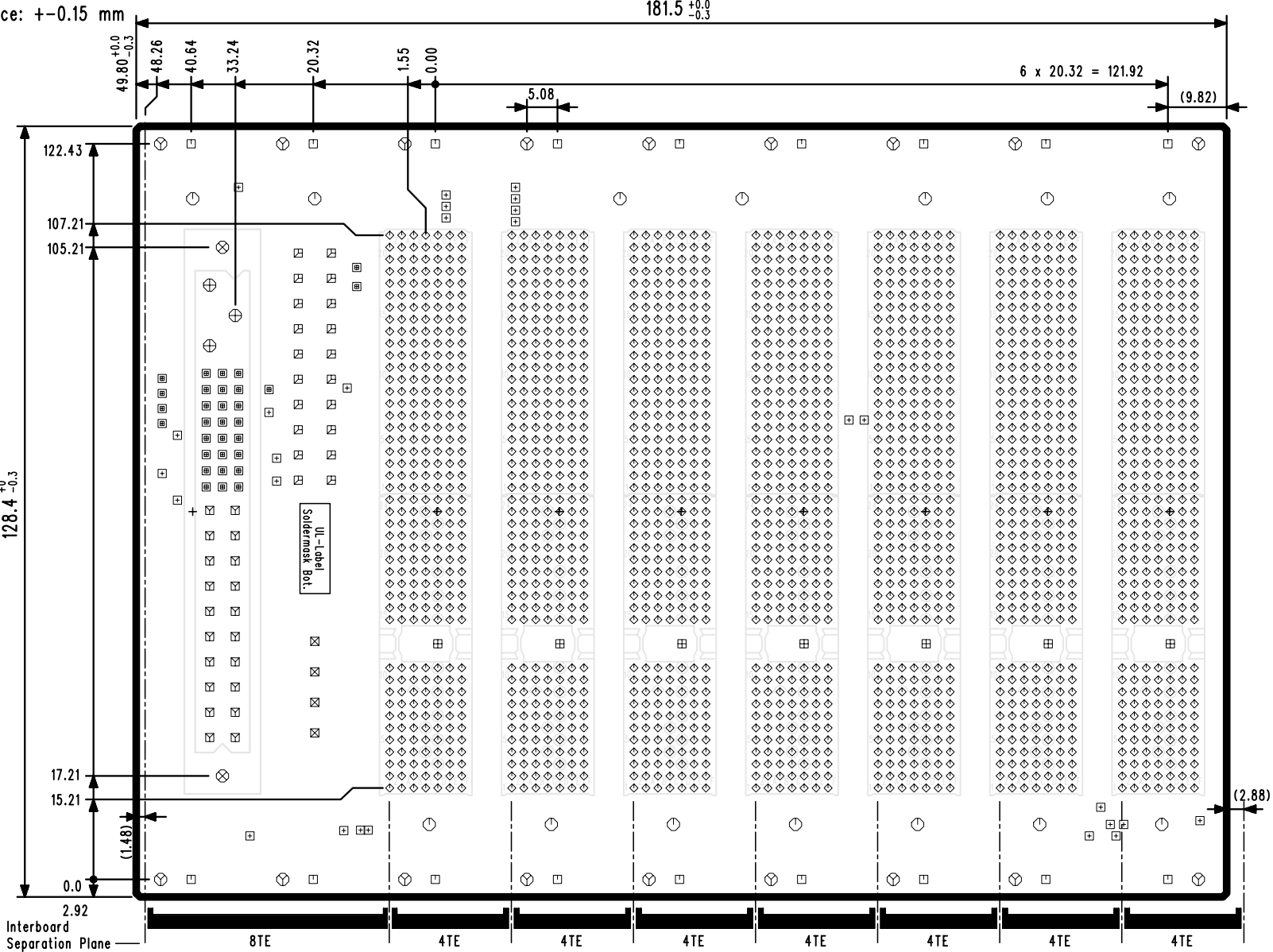
SR2 SR3 SR4 SR5

Silkscreen Bottom Pads Bottom

A	B	C	D
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[illegible][illegible][illegible][illegible]

Common Tolerance: $\pm 0.15 \text{ mm}$



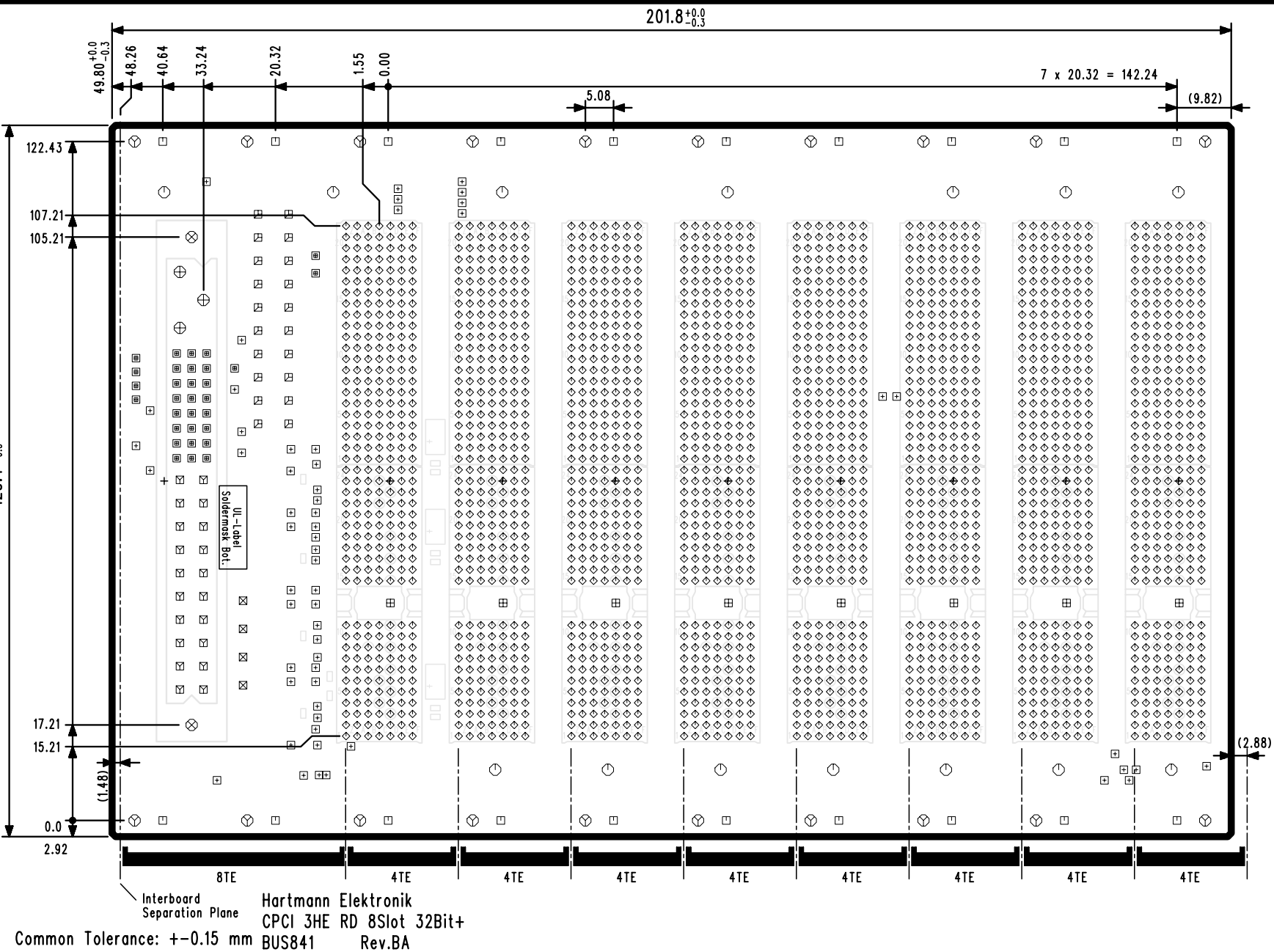
Hartmann Elektronik
CPCI 3HE RD 7Slot 32Bit+
BUS842 Rev.BA

Rev	Description	Date	Name	2003	Date	Name	Title
				Author	30.10.	Wiedmann	Hartmann Elektronik
				Check	30.10.	Wiedmann	CPCI 3HE RD 7Slot 32Bit+
						DIN A4	BUS842
						M 1:1	Rev.BA

Rev	Description	Date	Name	2003	Date	Name	Title
				Author	30.10.	Wiedmann	Hartmann Elektronik
				Check	30.10.	Wiedmann	CPCI 3HE RD 7Slot 32Bit+
						DIN A4	BUS842
						M 1:1	Rev.BA

Device:	HF-C33RD074--4	File:	BUS842BA
Sheet	of		

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				Title		
				Hartmann Elektronik		
				CPCI 3HE RD 8Slot 32Bit+		
				BUS841		
				Rev.BA		