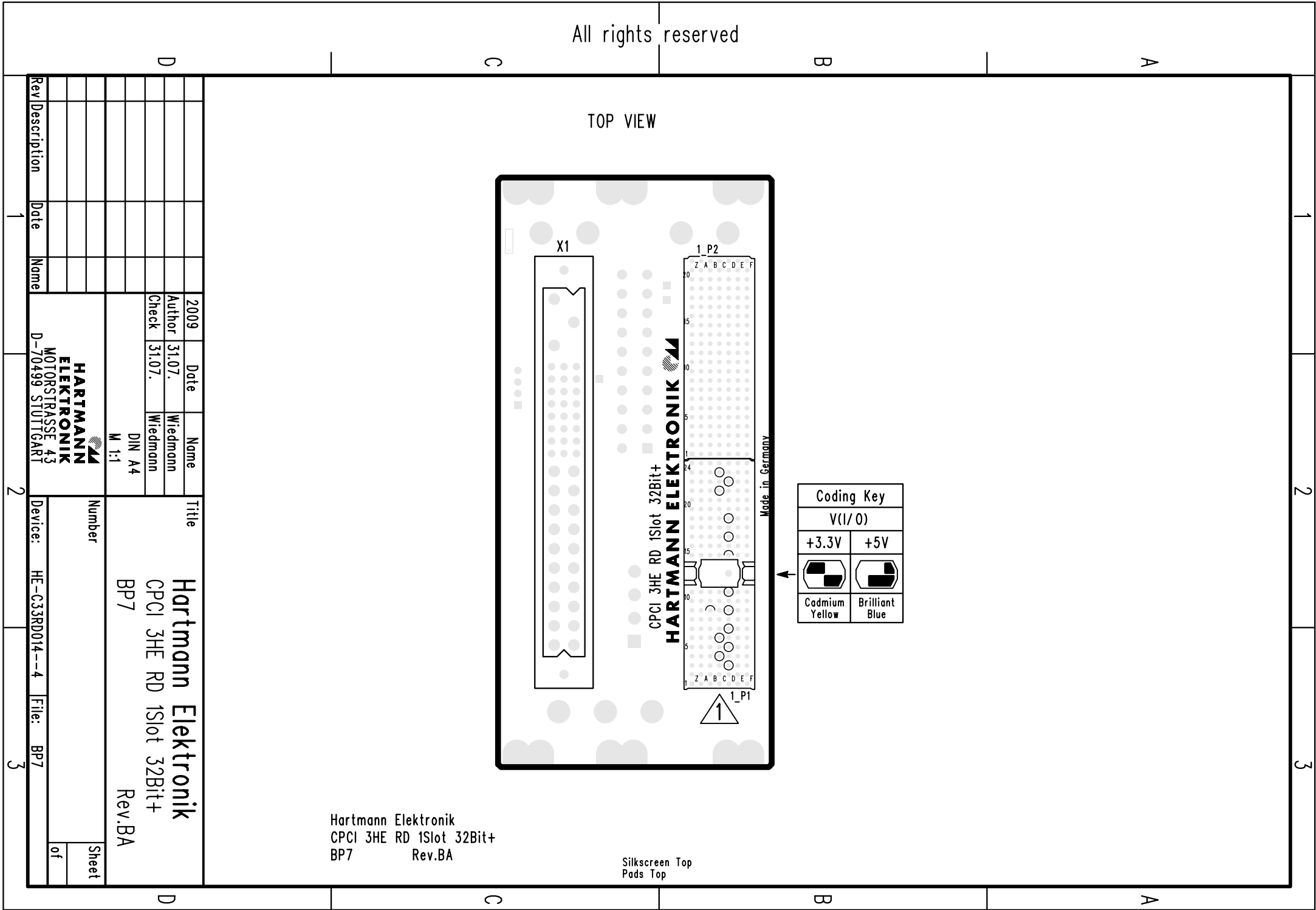


[illegible]

1 2 3

A B C D

TOP VIEW

X1

1_P2

1_P1

HARTMANN ELEKTRONIK

CPCI 3HE RD 1Slot 32Bit+ BP7

Made in Germany

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

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

Silkscreen Top
Pads Top

Rev	Description	Date	Name	2009	Date	Name	Title	Number	Device	File	Sheet
1							Hartmann Elektronik CPCI 3HE RD 1Slot 32Bit+ BP7 Rev.BA	BP7	HE-C33RD014--4	BP7	1 of 1

[illegible]

1 2 3

A B C D

TOP VIEW

The diagram shows a rectangular PCB layout. At the top, there is a header with '1 2 3' and 'A B C D'. Below this, the text 'TOP VIEW' is centered. The main area contains a large rectangle representing the PCB. Inside this rectangle, there is a smaller rectangle labeled 'X1' at the top. Below 'X1', there is a large area labeled 'HARTMANN ELEKTRONIK' with a logo. To the right of this area, there is a component labeled 'P2' with a pin header. Below 'P2', there is a component labeled 'P1' with a pin header. To the right of 'P1', there is a 'Coding Key' table. The table has two columns: '+3.3V' and '+5V'. The rows are 'Cadmium Yellow' and 'Brilliant Blue'. The table is labeled 'V(I/O)'. Below the table, there is a title block with the following text: 'Hartmann Elektronik', 'CPCI 3HE RD 1Slot 32Bit+', 'BP7', 'Rev.BA'. At the bottom, there is a footer with the text 'Hartmann Elektronik', 'CPCI 3HE RD 1Slot 32Bit+', 'BP7', 'Rev.BA', and 'Silkscreen Top Pads Top'.

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

1

2

3

A

B

C

D

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

Silkscreen Top
Pads Top

Rev Description Date Name

2009 31.07. Wiedmann

Author 31.07. Wiedmann

Check 31.07. Wiedmann

DIN A4

M 1:1

Number

Title

Hartmann Elektronik

CPCI 3HE RD 1Slot 32Bit+ BP7

Rev.BA

Device: HE-C33RD014--4 File: BP7

Sheet of

1

2

3

A

B

C

D

All rights reserved

1 2 3

A B C D

TOP VIEW

X1

1_P2

1_P1

HARTMANN ELEKTRONIK

CPCI 3HE RD 1Slot 32Bit+ BP7

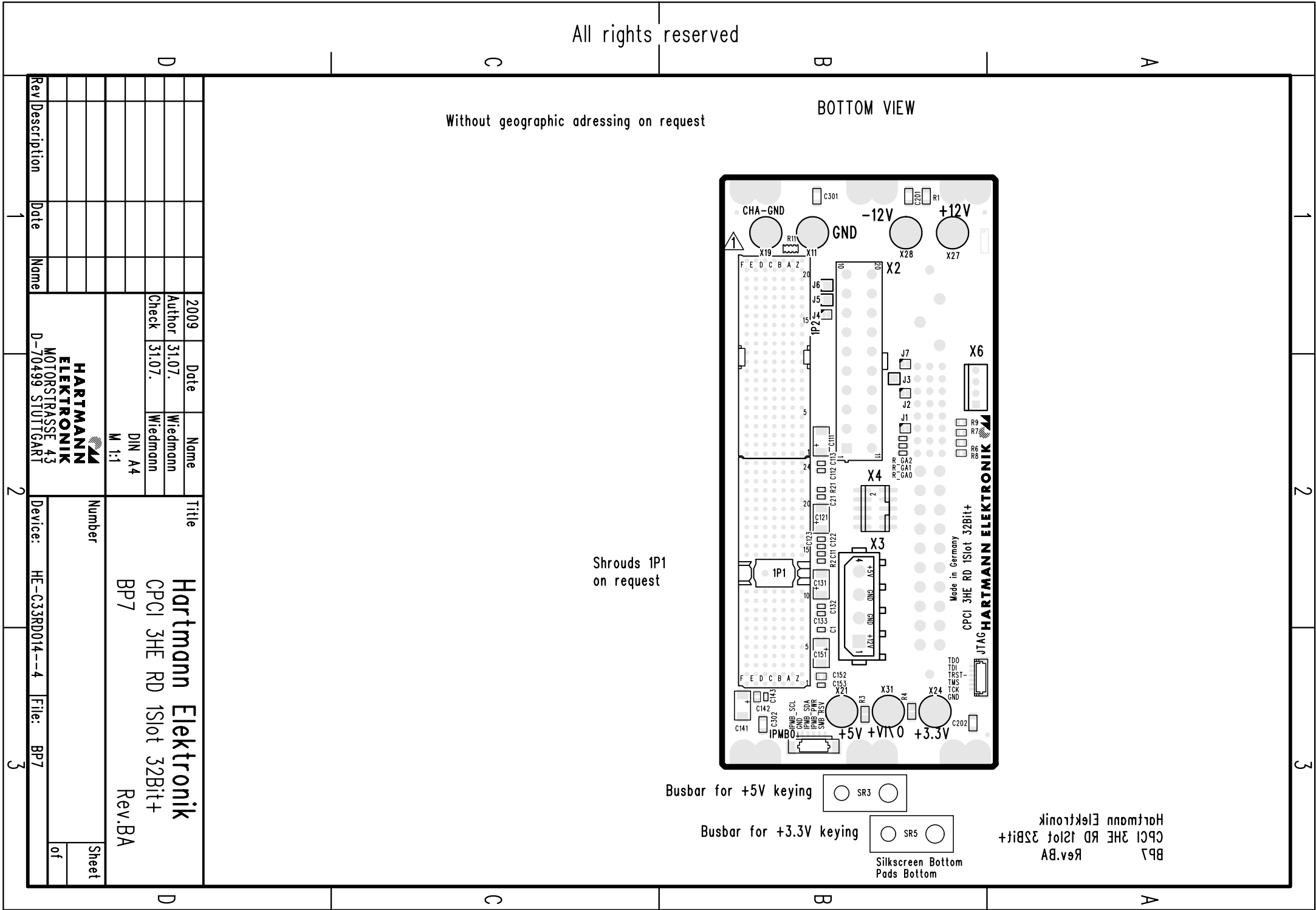
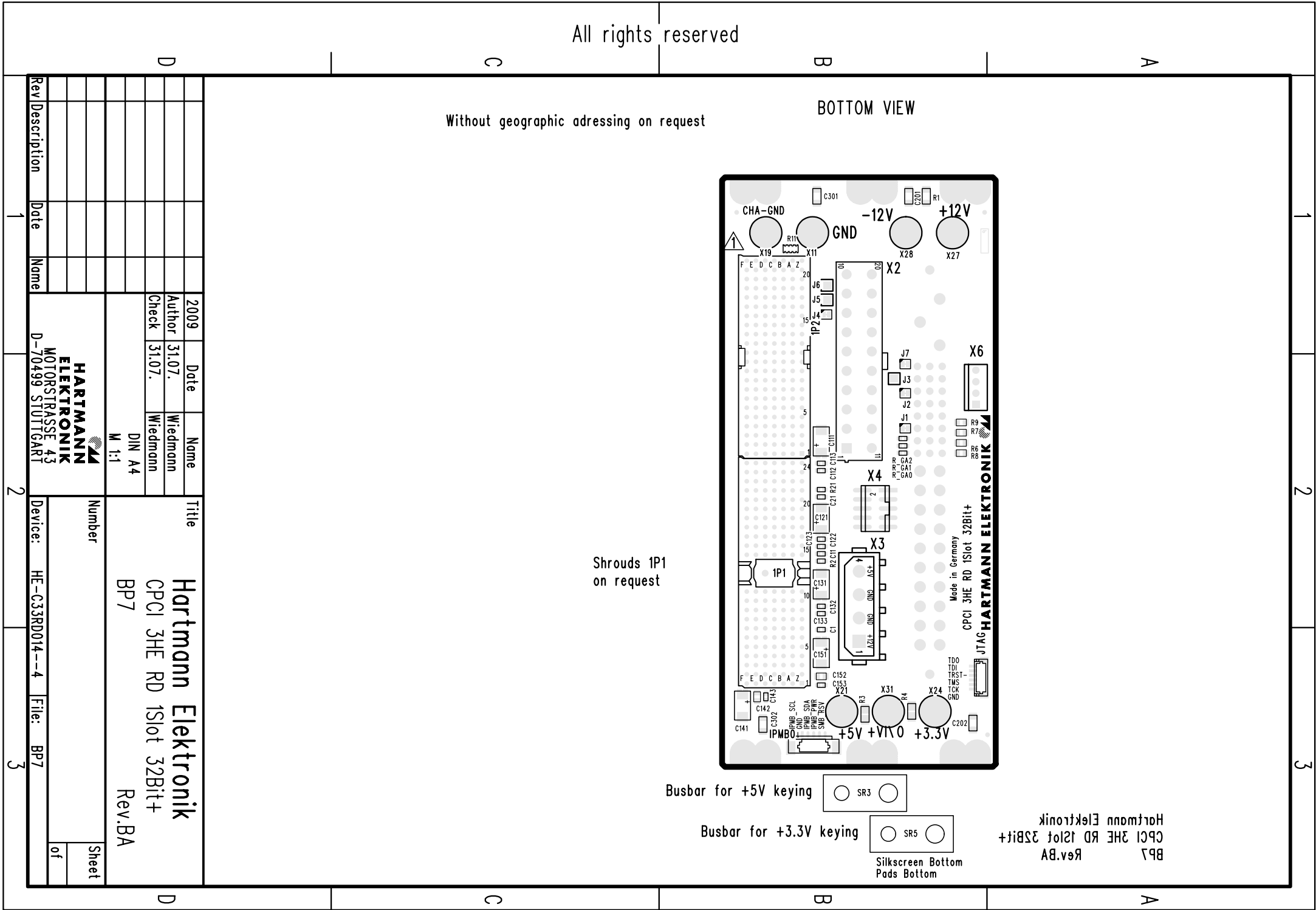
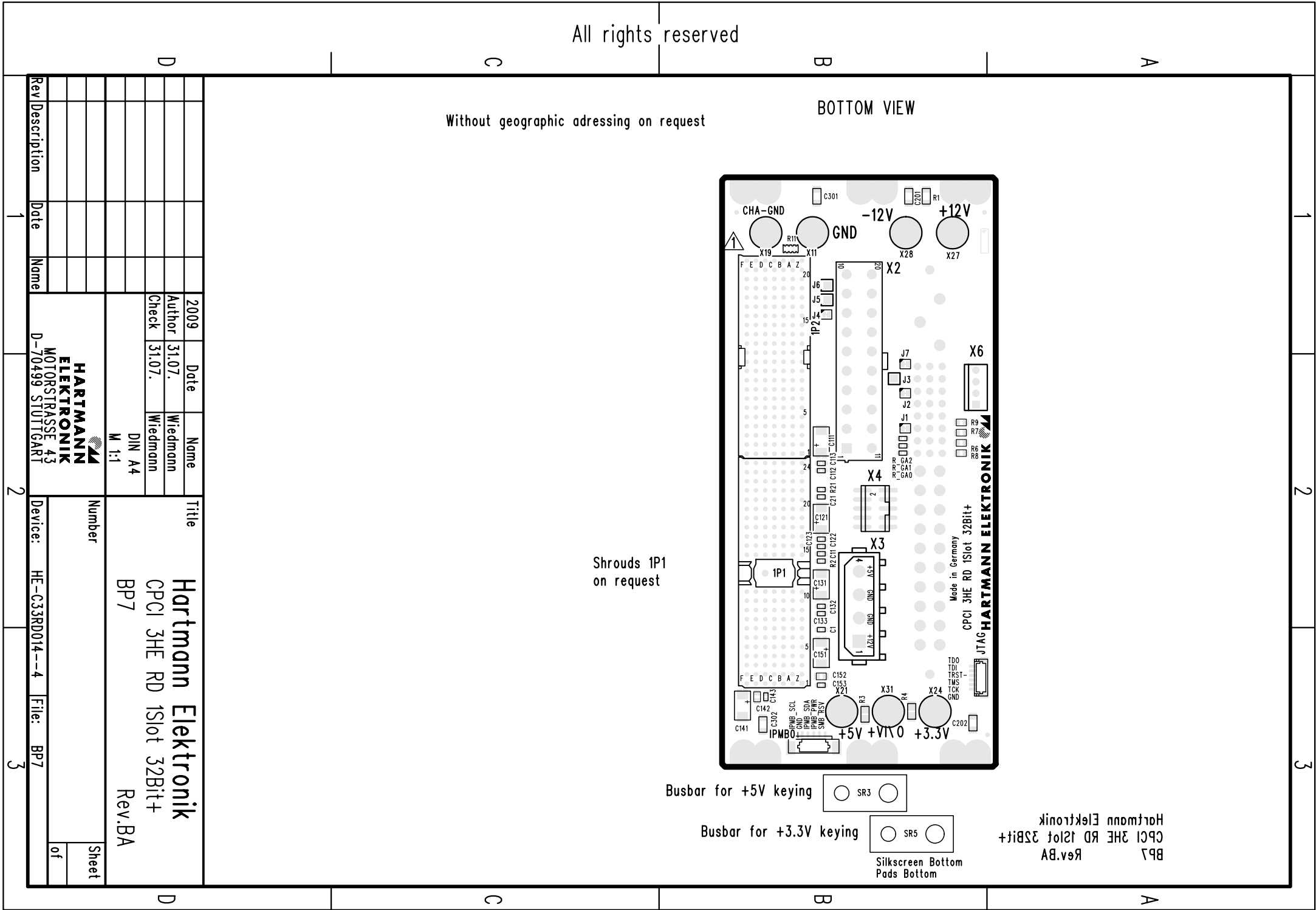
Made in Germany

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

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

Silkscreen Top
Pads Top

Rev	Description	Date	Name	2009	Date	Name	Title	Number	Device	File	Sheet
1							Hartmann Elektronik CPCI 3HE RD 1Slot 32Bit+ BP7 Rev.BA	BP7	HE-C33RD014--4	BP7	1 of 1

[illegible][illegible][illegible][illegible][illegible][illegible]

1
2
3

A
B
C
D

1
2
3

A
B
C
D

Without geographic addressing on request

Shrouds 1P1 on request

BOTTOM VIEW

All rights reserved

Without geographic addressing on request

BOTTOM VIEW

Shrouds IP1
on request

Busbar for +5V keying

Busbar for +3.3V keying

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

Number

Device: HE-C33RD014--4 File: BP7

Sheet
of

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

All rights reserved

The drawing shows a rectangular PCB layout with various dimensions and component placements. Key dimensions include overall width of 59.6 mm, height of 128.4 mm, and specific placement coordinates like 49.80, 48.26, 40.64, 33.24, 20.32, 5.08, 1.55, 0.00, 122.43, 107.21, 105.21, 17.21, 15.21, 0.0, 2.92, and (2.88). A central area is labeled 'Ul-Label Soldermask Bot.'. The bottom edge features two connector types: '8TE' and '4TE'. An 'Interboard Separation Plane' is indicated near the bottom left.

Rev	Description	Date	Name
1			

Year	Date	Name
2009		
Author	31.07.	Wiedmann
Check	31.07.	Wiedmann

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

DIN A4
M 1:1

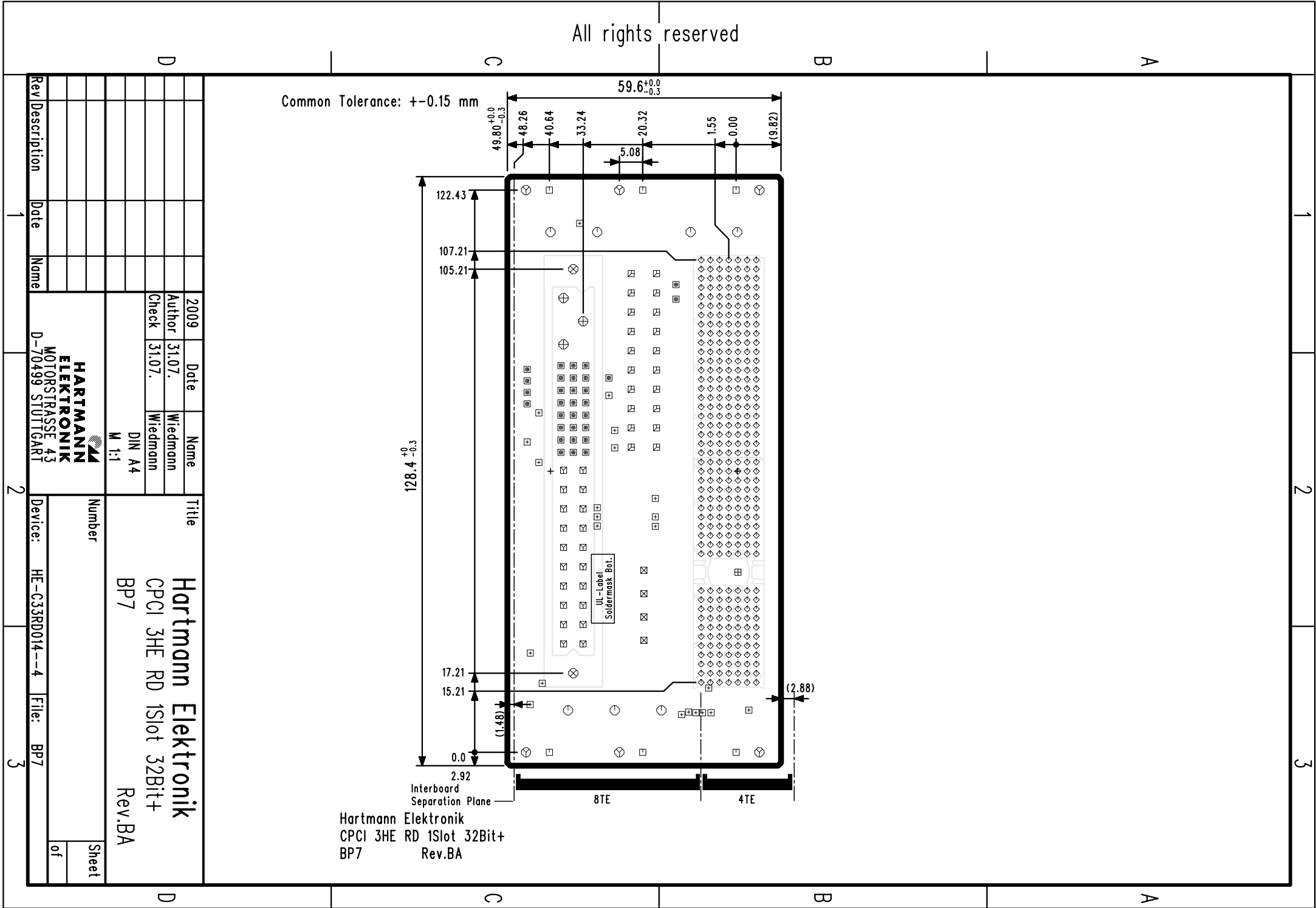
Title: Hartmann Elektronik
CPCI 3HE RD 1Slot 32Bit+
BP7
Rev.BA

Number

Device: HE-C33RD014--4 File: BP7

Sheet of

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

[illegible][illegible]

1 2 3

A B C D

All rights reserved

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

79.9 $^{+0.0}_{-0.3}$

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

48.26

40.64

33.24

20.32

5.08

1.55

0.00

(9.82)

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

(2.88)

(1.48)

UL-Label
Soldermask Bot.

HARTMANN ELEKTRONIK
MOTORSTRASSE 43
D-70499 STUTTGART

2009

28.07.

28.07.

Wiedmann

Wiedmann

DIN A4

M 1:1

Number

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

Rev.BA

RevDescription

Date

Name

Device: HE-C33RD024--4

File: BP6

Sheet

of

All rights reserved

Common Tolerance: ± 0.15 mm

Dimensions (mm):

- Overall width: $79.9^{+0.0}_{-0.3}$
- Overall height: $128.4^{+0.3}_{-0.3}$
- Top section width: $49.80^{+0.0}_{-0.3}$
- Top section height: 48.26
- Top section width (inner): 40.64
- Top section height (inner): 33.24
- Top section width (inner): 20.32
- Top section height (inner): 5.08
- Top section width (inner): 1.55
- Top section height (inner): 0.00
- Top section width (inner): 20.32
- Top section height (inner): (9.82)
- Bottom section width: 122.43
- Bottom section height: 107.21
- Bottom section height (inner): 105.21
- Bottom section width (inner): 17.21
- Bottom section height (inner): 15.21
- Bottom section width (inner): (1.48)
- Bottom section height (inner): 0.0
- Bottom section width (inner): 2.92
- Bottom section height (inner): (2.88)

Labels:

- UL-Label
- Soldermask Bot.
- Interboard Separation Plane
- 8TE
- 4TE
- 4TE

Table:

Rev	Description	Date	Name	Title
1		2009		
		Author	28.07.	Wiedmann
		Check	28.07.	Wiedmann
		DIN A4	M 1:1	
		Number		
		Sheet		
		of		

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

X1

HARTMANN ELEKTRONIK

3_P1

2_P2

1_P2

CPCI 3HE RD 3Slot 32Bit+

Made in Germany

1

2

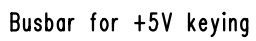
3

↑

Silkscreen Top
Pads Top

[illegible]

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 <table border="1"> <tr> <td>Sheet</td> <td>of</td> </tr> </table>	Sheet	of
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

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464

465

1 2 3

A B C D

All rights reserved

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
MOTORSTRASSE 43
D-70499 STUTTGART

2004

10.09.

10.09.

Wiedmann

Wiedmann

DIN A4

M 1:1

Number

Hartmann Elektronik

CPCI 3HE RD 3Slot 32Bit+

BUS845

Rev.BA

RevDescription

Date

Name

Device: HE-C33RD034--4

File: BUS845BA

Sheet

of

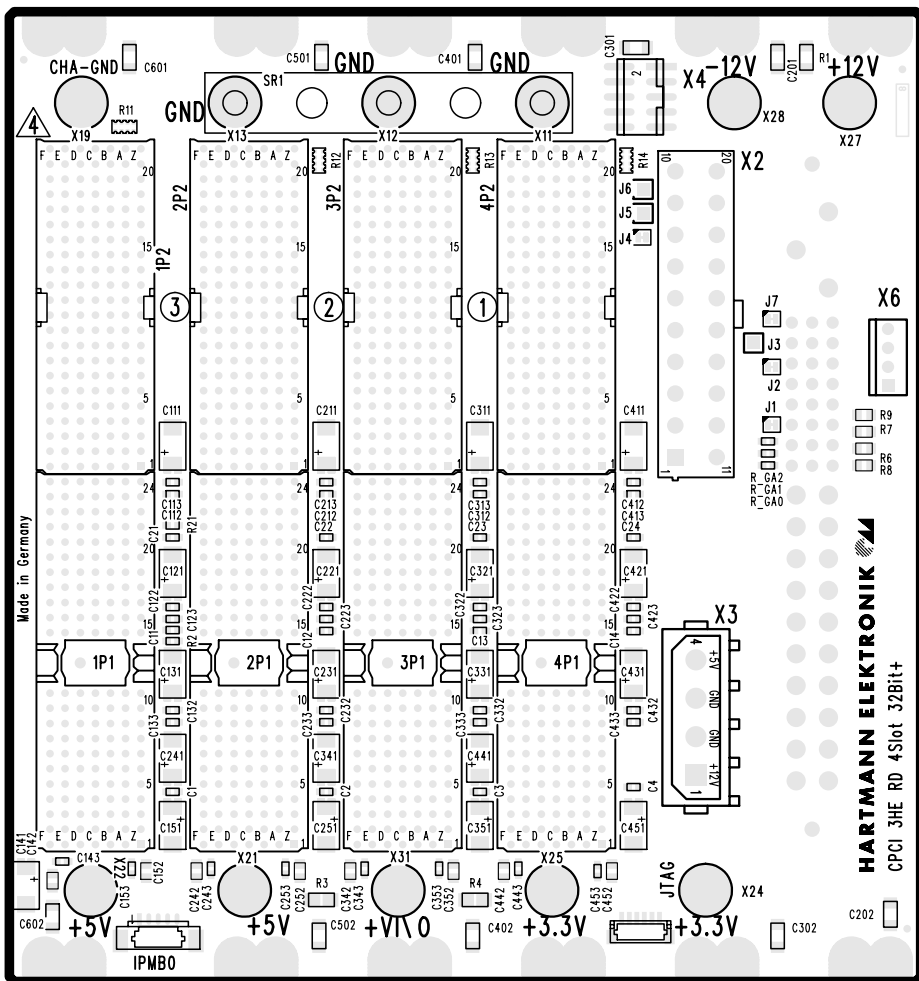
↑

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)



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

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

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

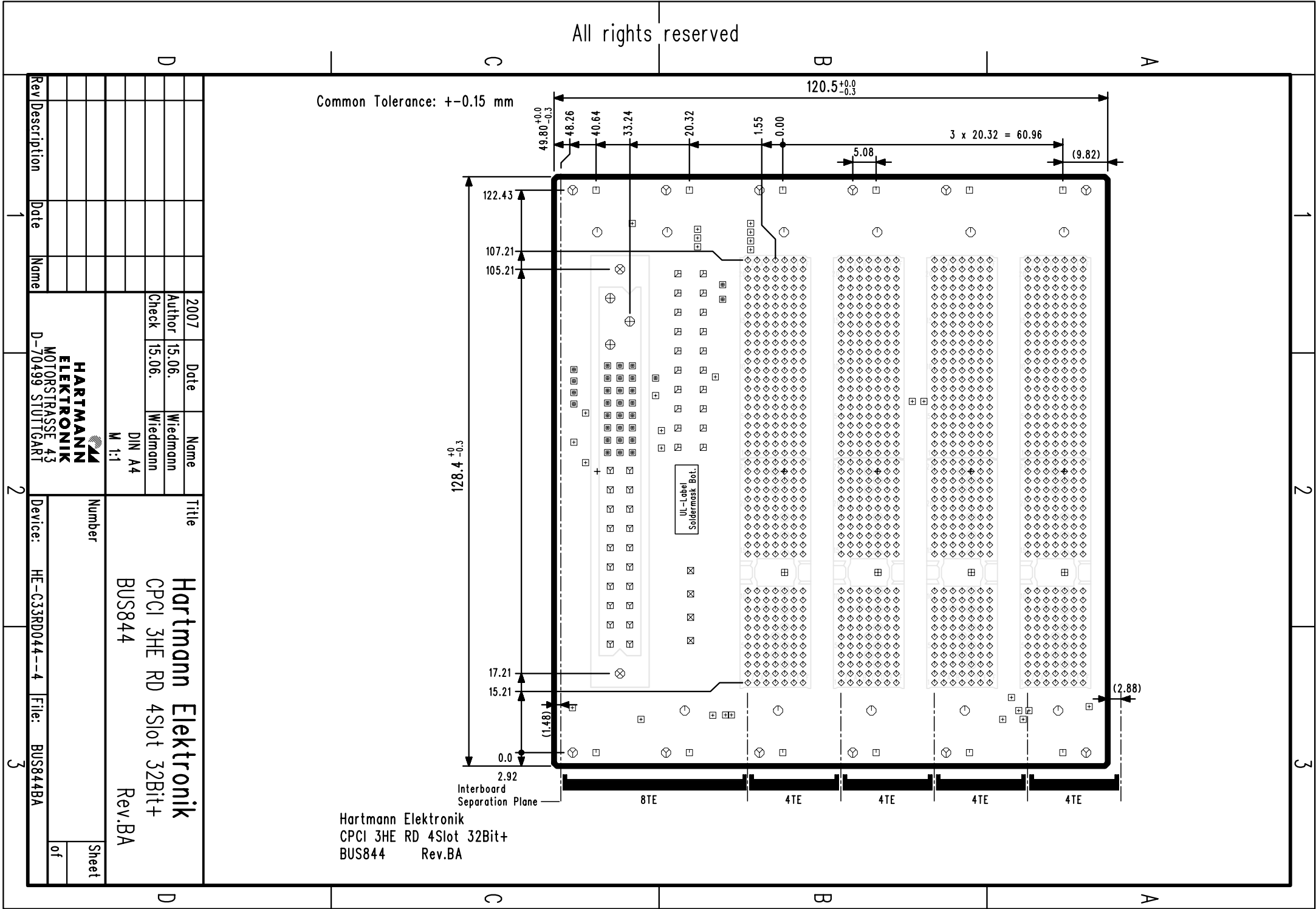
Silkscreen Bottom
Pads Bottom

☐ SR2
 ☐
☐
☐
☐

☐ SR3
 ☐
☐

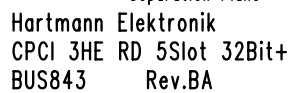
☐ SR5 ☐	☐ SR4 ☐ ☐ ☐ ☐
---	---

[illegible]

[illegible][illegible][illegible]

↑

Silkscreen Top
Pads Top



D	Author	04.11.	Wiedmann
	Check	04.11.	Wiedmann

[illegible]

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

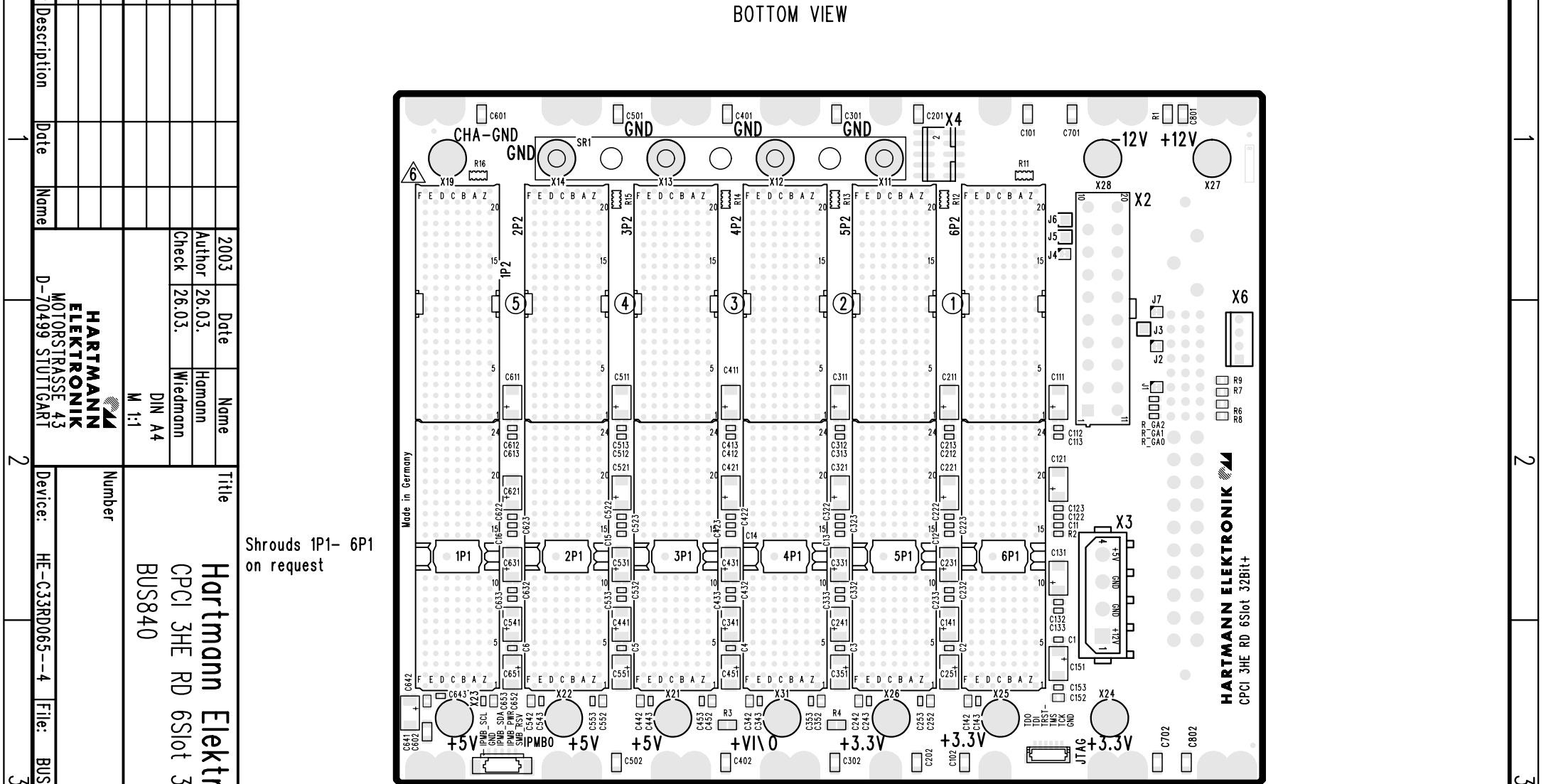
HARTMANN ELEKTRONIK

Made in Germany

CPCI 3HE RD 6Slot 32Bit+

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

[illegible]

[illegible]

SR3

☐ SR5 ☐ ☐ ☐ ☐

☐ SR4 ☐ ☐ ☐ ☐ ☐ ☐

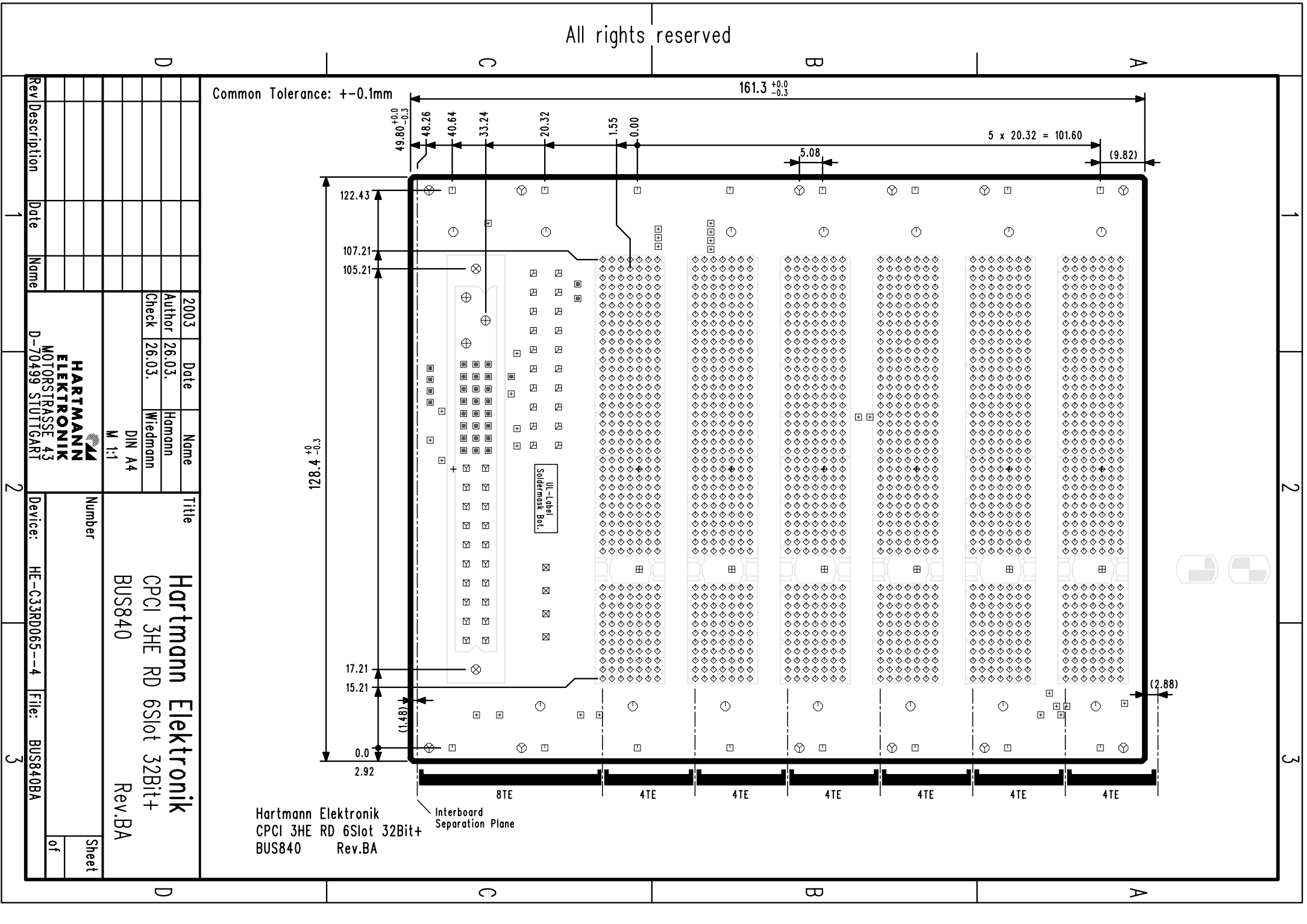
Busbar for +5V keying

Busbar for +3.3V keying

SR2 SR3 SR4 SR5

Silkscreen Bottom Pads Bottom

A	B	C	D
---	---	---	---

[illegible][illegible][illegible]

Technical drawing of a PCB layout, showing dimensions, tolerances, and component placement. The drawing is oriented horizontally, with dimensions in millimeters (mm).

Dimensions and Tolerances:

- Overall width: 161.3 ± 0.0 / -0.3 mm
- Overall height: 122.43 mm
- Common Tolerance: ± 0.1 mm
- Top edge dimensions (from left): 49.80 ± 0.0 / -0.3 mm, 48.26 mm, 40.64 mm, 33.24 mm, 20.32 mm, 1.55 mm, 0.00 mm, 5.08 mm, 5 x 20.32 = 101.60 mm, (9.82) mm.
- Right edge dimensions (from top): (2.88) mm, 2.92 mm.
- Bottom edge dimensions (from left): 17.21 mm, 15.21 mm, 0.0 mm.
- Left edge dimensions (from top): 107.21 mm, 105.21 mm.

Component Placement and Features:

- UL-Label Soldermask Bol.
- Interboard Separation Plane
- 8TE, 4TE, 4TE, 4TE, 4TE, 4TE, 4TE
- UL-Label Soldermask Bol.

Revision History:

Rev	Description	Date	Name
1			

Manufacturer Information:

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

Sheet Information:

Sheet of

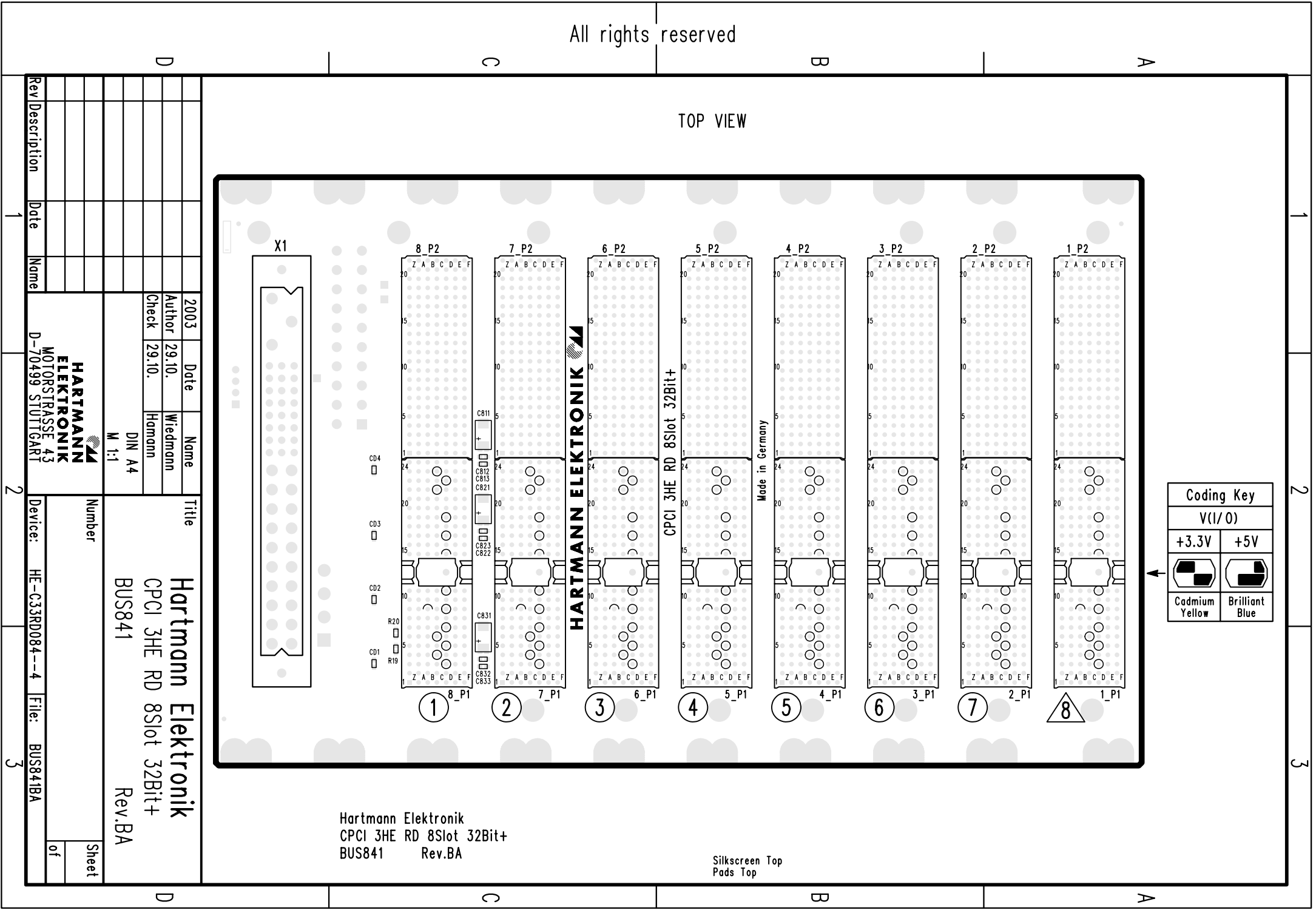
The diagram illustrates the layout of a 7-slot CPCI 3HE rack. The rack is labeled 'X1' and 'HARTMANN ELEKTRONIK'. It contains seven slots, numbered 1 to 7, each with a 'P2' and 'P1' connector. The slots are labeled 'CPCI 3HE RD 7Slot 32Bit+'. The diagram shows the internal layout of the slots, including the 'P2' and 'P1' connectors, and the 'HARTMANN ELEKTRONIK' logo.

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

Silkscreen Top
Pads Top

Common Tolerance: ± 0.15 mm

[illegible]



Rev		Description		Date		Name		2003		Date		Name		Title	
								Author		29.10.		Wiedmann		Hartmann Elektronik	
								Check		29.10.		Homann		CPCI 3HE RD 8Slot 32Bit+	
														DIN A4	
														M 1:1	
														Number	
														BUS841	
														Rev.BA	
														Sheet	
														of	

TOP VIEW

The top view of the PCB shows 8 slots, each with a 20-pin header (P2) and a 24-pin header (P1). The slots are numbered 1 to 8 from right to left. The PCB is populated with various components including capacitors (C811, C812, C813, C821, C822, C831, C832, C833), resistors (R20, R19), and connectors (CD4, CD3, CD2, CD1). The silkscreen text includes 'HARTMANN ELEKTRONIK', 'CPCI 3HE RD 8Slot 32Bit+', 'BUS841', and 'Rev.BA'. A coding key is provided for the V(I/O) pins, indicating Cadmium Yellow for +3.3V and Brilliant Blue for +5V.

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

Sheets: 1 of 1

[illegible][illegible]

Technical drawing of a PCB layout for a Hartmann Elektronik CPCI 3HE RD 8Slot 32Bit+ BUS841. The drawing shows the board dimensions, component placement, and manufacturing details.

Dimensions:

- Overall width: 201.8 ± 0.0 / -0.3 mm
- Overall height: 122.43 mm
- Slot width: 20.32 mm (7 slots = 142.24 mm)
- Slot pitch: 20.32 mm
- Slot offset: 5.08 mm
- Slot width tolerance: ± 0.15 mm

Component Placement:

- UL-Label: Located at the top center of the board.
- Soldermask Bot.: Located at the bottom center of the board.
- Interboard Separation Plane: Located at the bottom of the board.

Manufacturing Details:

- Common Tolerance: ± 0.15 mm
- Material: M 1:1
- Scale: 1:1

Revision History:

Rev	Description	Date	Name
1			
2			
3			

Sheet Information:

Sheet	of
1	1

Company Information:

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

[illegible]

Technical drawing of a PCB layout for a Hartmann Elektronik CPCI 3HE RD 8Slot 32Bit+ BUS841. The drawing shows the board dimensions, component placement, and various callouts.

Dimensions:

- Overall width: 201.8 ± 0.0 / -0.3 mm
- Overall height: 122.43 mm
- Slot width: 20.32 mm (7 slots = 142.24 mm)
- Slot pitch: 5.08 mm
- Slot height: 49.80 ± 0.0 / -0.3 mm
- Slot depth: 48.26 mm
- Slot width (internal): 40.64 mm
- Slot width (internal): 33.24 mm
- Slot width (internal): 20.32 mm
- Slot width (internal): 15.51 mm
- Slot width (internal): 0.00 mm
- Slot width (internal): 17.21 mm
- Slot width (internal): 15.21 mm
- Slot width (internal): 0.0 mm
- Slot width (internal): 2.92 mm

Component Placement:

- UL-Label
- Soldermask Bot.
- Interboard Separation Plane

Common Tolerance: ± 0.15 mm

Revision: Rev.BA

Manufacturer: Hartmann Elektronik

Part Number: CPCI 3HE RD 8Slot 32Bit+ BUS841

Revision: Rev.BA

Sheet: 1 of 3

File: BUS841BA

Device: HE-C33RD084--4

Author: Wiedmann

Date: 29.10.

Check: Hamann

Scale: DIN A4 M 1:1

Rev Description:

Rev	Description	Date	Name
1			
2			
3			