BC installation component housings

BC series installation component housings

Data sheet
102981_en_09

1 Description

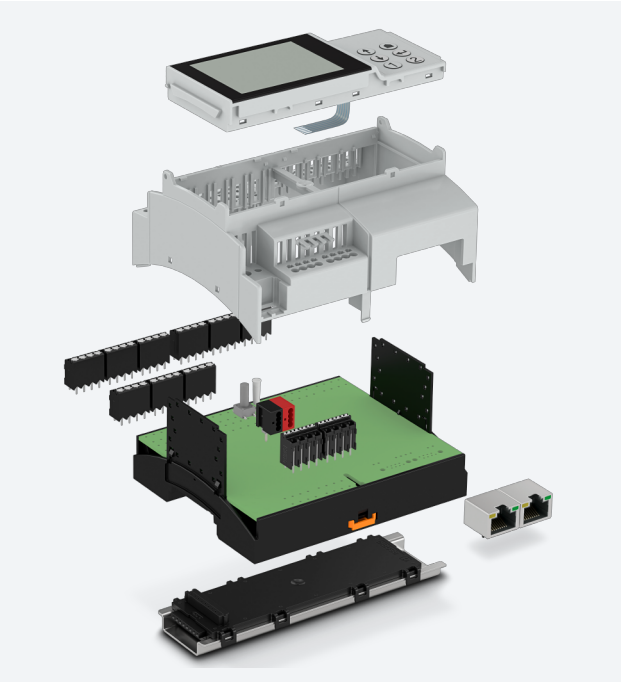
The installation component housings of the **BC** series are suitable for use in common distribution board boxes and comply with the standard DIN 43880.

The component housings are available in seven different **overall widths**, from the width of one horizontal pitch (1HP = 17.8 mm) to twelve horizontal pitches (12HP = 215.6 mm).

Starting with the overall width 2HP (35.6 mm), the installation space for PCB connection technology is available in two different installation depths:

- For BC...U11, the connection technology has 11 mm of space. This is ideal for the use of connection technology with small pitches (e.g., COMBICON compact)
- For BC...U22, the installation space for the connection technology is maximized to 22 mm. Double-level connection terminal blocks or RJ45 connectors, for example, can be mounted.
- Starting with the overall width 4HP (71.6 mm), there is a housing cover with a 2.4" touch display. Starting with the overall width 6HP (107.6 mm), an additional membrane keypad is possible.

Figure 1 Overview



Observe these notes

WARNING: Only electrically qualified personnel may install and operate the housings. The qualified personnel must be able to recognize and prevent danger.

3D housing data can be found at phoenixcontact.com/products

Make sure you always use the latest documentation. It can be downloaded at phoenixcontact.com/products.

This document is valid for the products listed in Section “Ordering data” on page 5

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2 Overview of BC products

Figure 2 Overview

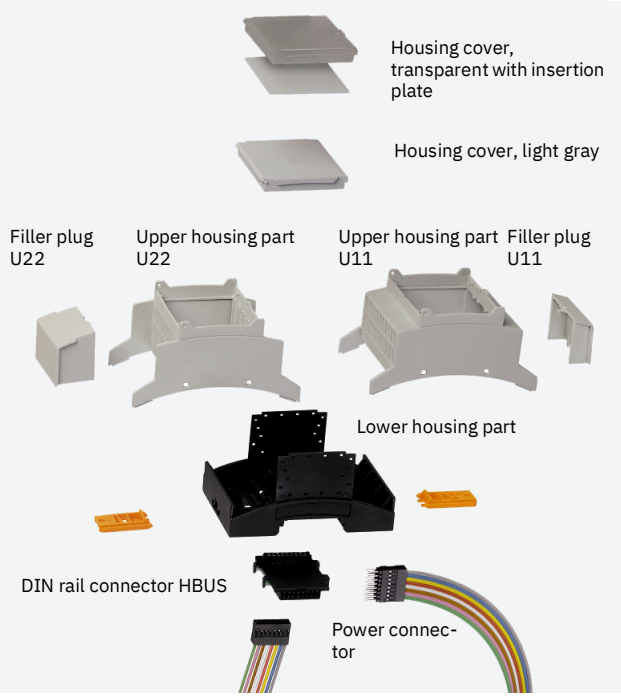


Figure 3 Examples of BC series housings

With **BC modular**, the larger overall widths are divided into segments. In each of the four (4HP/6HP) or six (9HP) segments, the side panel can be arranged in three different positions. When the side panel is located at the innermost position, the installation space for the connection technology is maximized to 22 mm (U22). For the middle side panel position, there is 11 mm of installation space for the connection technology (U11). When the side panel is located at the outermost position, the installation space for the connection technology is closed off. In addition, you can select segments that are tailored to the Push-in connection technology of the SPT-THR 1,5/2,5 series.

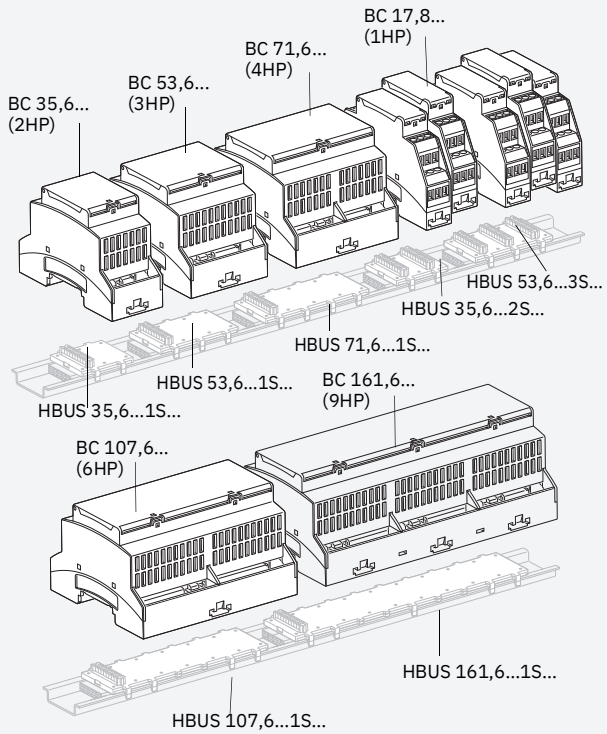
The **PCBs** can be installed parallel or perpendicular to the DIN rail starting at 2HP. The perpendicular PCBs can, however, be aligned either parallel or transverse to the DIN rail. In all cases, the PCBs can be snapped in at different locations.

There are four **housing cover** versions:

- Transparent, hinged and can be sealed (hinged cover)
- Permanently snapped onto upper housing part (latching cover)
- With 2.4" touch display, permanently snapped onto upper housing part
- With 2.4" touch display and membrane keypad, permanently snapped onto upper housing part

The component housings are mounted on an NS 35 DIN rail.

Figure 4 Overview of DIN rail connectors HBUS



Optionally, an 8-pos. or 16-pos. **DIN rail connector** can be inserted in the DIN rail. This serves to establish automatic contact from device to device. With the bus connector, the data and energy transmission can be serial or parallel (4 x power, 2 x serial, 10 x parallel). Individual devices can be plugged in or unplugged without breaking up the group of modules.

Overall widths and connection technology

Overall width [mm]	Upper housing part Space for connection technology		Housing cover	DIN rail connector HBUS
17.8 (1HP)	MKDSO series PCB terminal blocks		Latching cover Hinged cover	1x 8-pos. 2x 16-pos. 3x 16-pos.
35.6 (2HP)	11 mm (U11)			
53.6 (3HP)	22 mm (U22)			
71.6 (4HP)	11 mm (U11) 22 mm (U22)	Modular subdivision and coordination with SPT-THR series PCB terminal blocks	Latching cover Hinged cover Cover with touch display and, if necessary, membrane keypad	1x 8-pos. 1x 16-pos.
107.6 (6HP)				
161.6 (9HP)				
			Latching cover	–

3 Ordering data

3.1 BC ordering data (1–3HP)

Overall width 17.8 mm (1HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 17,8 UT HBUS KMGY	2201070	10
	Black	BC 17,8 UT HBUS BK	2896241	10
		BC 17,8 UT HBUS BK VPE280	1377629	280
Base latch mounted		BC 17,8 UT HBUS FS BK	2200120	10
Upper housing part, for horizontal PCB connection with 3.5 mm or 5 mm pitch	Light gray	BC 17,8 OTU MKDSO KMGY	2279732	10
	Black	BC 17,8 OTU MKDSO BK	1227302	10
Upper housing part, for horizontal PCB connection with 5 mm pitch	Light gray	BC 17,8 OT MKDSO KMGY	2896092	10
		BC 17,8 OTU MKDSO KMGY VPE280	1377630	280
	Black	BC 17,8 OT MKDSO BK	1227312	10
Housing cover, permanently snapped onto upper housing part	Light gray	BC 17,8 DKL R KMGY	2896144	10
	Black	BC 17,8 DKL R BK	1210710	10
Housing cover, hinged, can be sealed, including insertion plate	Transparent/light gray	BC 17,8 DKL S TRANS	2896102	10
	Light gray	BC 17,8 DKL S KMGY	2200045	10
	Transparent/black	BC 17,8 DKL S TRANS BK	1227299	10

Accessories, overall width 17.8 mm (1HP)

Description		Type	Item No.	Pcs./ Pkt.
PCB terminal block, for soldering onto PCB, 3.5 mm pitch, number of positions: 4	Left	MKDSO 1,5/4-L-3,5 KMGY	2278432	50
	Right	MKDSO 1,5/4-R-3,5 KMGY	2278429	50
PCB terminal block, for soldering onto PCB, 5 mm pitch, number of positions: 3	Left	MKDSO 2,5/3-L KMGY	2854102	50
		MKDSO 2,5/3-L BK	2869757	50
	Right	MKDSO 2,5/3-R KMGY	2854092	50
		MKDSO 2,5/3-R BK	2869744	50
DIN rail connector	1 slot	HBUS8 17,8-8P-1S BK	1249068	10
	2 slots	HBUS 35,6-16P-2S BK	2896319	10
	3 slots	HBUS 53,6-16P-3S BK	2896322	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space	Light gray	ME B-17,5 MKDSO KMGY	2854115	50
	Black	ME B-17,5 MKDSO BK	2853019	50
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10

Other colors and versions are possible.

Overall width 35.6 mm (2HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 35,6 UT HBUS KMGY	1227343	10
	Black	BC 35,6 UT HBUS BK	2896254	10
Base latch mounted	Black	BC 35,6 UT HBUS FS BK VPE240	1464719	240
Upper housing part, with vents, terminal installation depth 11 mm	Light gray	BC 35,6 OT U11 KMGY	2896034	10
	Black	BC 35,6 OT U11 BK	2200777	10
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 35,6 OT U22 KMGY	2896047	10
	Black	BC 35,6 OT U22 BK	1227303	10
Housing cover, permanently snapped onto upper housing part	Light gray	BC 35,6 DKL R KMGY	2896157	10
	Black	BC 35,6 DKL R BK	2200776	10
Housing cover, hinged, can be sealed, transparent, including insertion plate	Transparent/light gray	BC 35,6 DKL S TRANS	2896115	10

Accessories, overall width 35.6 mm (2HP)

Description		Type	Item No.	Pcs./ Pkt.
DIN rail connector	1 slot	HBUS8 35,6-8P-1S BK	1249063	10
	1 slot	HBUS 35,6-16P-1S BK	2896283	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	11 mm	BC 35,6 BS U11 KMGY	2896209	50
		BC 35,6 BS U11 BK	1227307	10
	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Insertion plate	Light gray	BC 35,6 PLATE KMGY	2200712	50

Other colors and versions are possible.

Overall width 53.6 mm (3HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 53,6 UT HBUS KMGY	1210716	10
	Gray	BC 53,6 UT HBUS GY7042	1566667	10
	Light gray/red	BC 53,6 UT HBUS KMGY/RD	1016021	10
	Black	BC 53,6 UT HBUS BK	2896403	10
		BC 53,6 UT HBUS FS BK VPE240	1006947	240
Upper housing part, with vents, terminal installation depth 11 mm	Light gray	BC 53,6 OT U11 KMGY	2896416	10
	Black	BC 53,6 OT U11 BK	2201607	10
		BC 53,6 OT U11 BK VPE240	1006941	240
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 53,6 OT U22 KMGY	2896429	10
	Black	BC 53,6 OT U22 BK	2202193	10
Housing cover, permanently snapped onto upper housing part, in housing color light gray	Light gray	BC 53,6 DKL R KMGY	2896432	10
	Black	BC 53,6 DKL R BK	2201608	10
Housing cover, hinged, can be sealed, including insertion plate	Transparent/light gray	BC 53,6 DKL S TRANS	2896445	10
	Transparent/black	BC 53,6 DKL S TRANS BK	1210712	10

Accessories, overall width 53.6 mm (3HP)

Description		Type	Item No.	Pcs./ Pkt.
DIN rail connector	1 slot	HBUS8 53,6-8P-1S BK	1249064	10
	1 slot	HBUS 53,6-16P-1S BK	2896458	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	11 mm	BC 35,6 BS U11 KMGY	2896209	50
		BC 35,6 BS U11 BK	1227307	10
	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Filler plug for empty terminal space, 53.6 mm overall width, for terminal installation depth	11 mm	BC 53,6 BS U11 KMGY	2896225	50
	22 mm	BC 53,6 BS U22 KMGY	2896238	50
Insertion plate	Light gray	BC 53,6 PLATE GY7035	1163650	50

Other colors and versions are possible.

Overall width 71.6 mm (4HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 71,6 UT HBUS KMGY	1227344	10
	Black	BC 71,6 UT HBUS BK	2896267	10
		BC 71,6 UT HBUS FS BK VPE160	1006950	160
Upper housing part, with vents, terminal installation depth 11 mm	Light gray	BC 71,6 OT U11 KMGY	2896050	10
	Black	BC 71,6 OT U11 BK	2202539	10
		BC 71,6 OT U11 BK VPE160	1006942	160
	Yellow	BC 71,6 OT U11 YE	1163769	10
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 71,6 OT U22 KMGY	2896063	10
	Black	BC 71,6 OT U22 BK	2202988	10
	White	BC 71,6 OT U22 WH	1181628	10
Housing cover, permanently snapped onto upper housing part, in housing color light gray	Light gray	BC 71,6 DKL R KMGY	2896160	10
	Black	BC 71,6 DKL R BK	1204540	10
Housing cover, hinged, can be sealed, including insertion plate	Transparent/light gray	BC 71,6 DKL S TRANS	2896128	10
	Transparent/yellow	BC 71,6 DKL S TRANS/YE	1163755	10

Accessories, overall width 71.6 mm (4HP)

Description		Type	Item No.	Pcs./ Pkt.
DIN rail connector	1 slot	HBUS8 71,6-8P-1S BK	1249065	10
	1 slot	HBUS 71,6 UT BK	1012027	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	11 mm	BC 35,6 BS U11 KMGY	2896209	50
		BC 35,6 BS U11 BK	1227307	10
	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Filler plug for empty terminal space, 53.6 mm overall width, for terminal installation depth	11 mm	BC 53,6 BS U11 KMGY	2896225	50
	22 mm	BC 53,6 BS U22 KMGY	2896238	50
Insertion plate	Light gray	BC 71,6 PLATE KMGY	2201313	50

Other colors and versions are possible.

Overall width 107.6 mm (6HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 107,6 UT HBUS KMGY	2202951	10
	Black	BC 107,6 UT HBUS BK	2896270	10
	Gray	BC 107,6 UT HBUS GY7021	1385674	10
	Light gray/red	BC 107,6 UT HBUS KMGY/RD	2203517	10
Upper housing part, with vents, terminal installation depth 11 mm	Light gray	BC 107,6 OT U11 KMGY	2896076	10
	Black	BC 107,6 OT U11 BK	2200721	10
		BC 107,6 OT U11 BK VPE80	1006943	80
	Gray	BC 107,6 OT U11 GY7021	1351374	10
	Yellow	BC 107,6 OT U11 YE	1163766	10
	Red	BC 107,6 OT U11 RD3000	2203809	10
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 107,6 OT U22 KMGY	2896089	10
	Black	BC 107,6 OT U22 BK	2203763	10
Housing cover, permanently snapped onto upper housing part, in housing color light gray	Light gray	BC 107,6 DKL R KMGY	2896173	10
	Black	BC 107,6 DKL R BK	2200722	10
Housing cover, hinged, can be sealed	Transparent/light gray	BC 107,6 DKL S TRANS	2896131	10
	Transparent/yellow	BC 107,6 DKL S TRANS/YE	1163754	10

Accessories, overall width 107.6 mm (6HP)

Description		Type	Item No.	Pcs./ Pkt.
DIN rail connector	1 slot	HBUS8 107,6-8P-1S BK	1252173	10
	1 slot	HBUS 107,6-16P-1S BK	2896306	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	11 mm	BC 35,6 BS U11 KMGY	2896209	50
		BC 35,6 BS U11 BK	1227307	10
	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Filler plug for empty terminal space, 53.6 mm overall width, for terminal installation depth	11 mm	BC 53,6 BS U11 KMGY	2896225	50
	22 mm	BC 53,6 BS U22 KMGY	2896238	50

Other colors and versions are possible.

Overall width 161.6 mm (9HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Light gray	BC 161,6 UT HBUS KMGY	1227345	10
	Black	BC 161,6 UT HBUS BK	2278500	10
		BC 161,6 UT HBUS FS BK VPE80	2201599	80
	Gray	BC 161,6 UT HBUS GY7021	1560324	10
	White	BC 161,6 UT HBUS WH	1252987	10
Upper housing part, with vents, terminal installation depth 11 mm	Light gray	BC 161,6 OT U11 KMGY	2278513	10
	Black	BC 161,6 OT U11 BK	2202833	10
		BC 161,6 OT U11 BK VPE80	1006944	50
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 161,6 OT U22 KMGY	2896089	10
		BC 161,6 OT U22 KMGY VPE80	2201599	80
	Black	BC 161,6 OT U22 BK	2201665	10
Housing cover, permanently snapped onto upper housing part, in housing color light gray	Light gray	BC 161,6 DKL R KMGY	2896173	10
	Black	BC 161,6 DKL R BK9005	2201664	10
Housing cover, hinged, can be sealed, including insertion plate	Transparent/light gray	BC 161,6 DKL S TRANS	2278542	10
	Transparent/black	BC 161,6 DKL S TRANS BK	1210711	10

Accessories, overall width 161.6 mm (9HP)

Description		Type	Item No.	Pcs./ Pkt.
DIN rail connector	1 slot	HBUS8 161,6-8P-1S BK	1249066	10
	1 slot	HBUS 161,6-16P-1S BK	2278555	10
Power connector for DIN rail connector, with 16 free cable ends with a cross-section of 0.25 mm²	Female strip	BL2-2,54/16-ST	1281276	100
	Pin strip	SL2-2,54/16-ST	1281275	50
Cable bridge for cross-DIN rail connection of the DIN rail connector		BSL2-2,54/16-ST	1281277	200
		BSL-2,54/16-ST 40CM	1281278	20
Cover cap set, 3-piece, for protecting empty DIN rail connectors	8-pos.	HBUS8-B SET BK	1252176	10
	16-pos.	HBUS-B SET BK	2278173	10
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	11 mm	BC 17,6 BS U11 KMGY	2896186	50
		BC 17,6 BS U11 BK	1227309	10
	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	11 mm	BC 35,6 BS U11 KMGY	2896209	50
		BC 35,6 BS U11 BK	1227307	10
	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Filler plug for empty terminal space, 53.6 mm overall width, for terminal installation depth	11 mm	BC 53,6 BS U11 KMGY	2896225	50
	22 mm	BC 53,6 BS U22 KMGY	2896238	50

Other colors and versions are possible.

Overall width 215.6 mm (12HP)

Description	Color	Type	Item No.	Pcs./ Pkt.
Lower housing part	Black	BC 215,6 UT HBUS BK	1457588	10
Upper housing part, with vents, terminal installation depth 22 mm	Light gray	BC 215,6 OT U22 KMGY	1457587	10
Housing cover, permanently snapped onto upper housing part, in housing color light gray	Light gray	BC 215,6 DKL R KMGY	1457589	10

Accessories, overall width 215.6 mm (12HP)

Description		Type	Item No.	Pcs./ Pkt.
Filler plug for empty terminal space, 17.6 mm overall width, for terminal installation depth	22 mm	BC 17,6 BS U22 KMGY	2896199	50
		BC 17,6 BS U22 BK	1227308	10
Filler plug for empty terminal space, 35.6 mm overall width, for terminal installation depth	22 mm	BC 35,6 BS U22 KMGY	2896212	50
Filler plug for empty terminal space, 53.6 mm overall width, for terminal installation depth	22 mm	BC 53,6 BS U22 KMGY	2896238	50

Other colors and versions are possible.

3.2 BC modular ordering data (4–9HP)

A configurator for selecting the products is available at phoenixcontact.com, web code: #0512. You can use it to configure your housing. You will then receive 3D data, order lists, and PCB layouts.

3.3 Order key for BC modular – upper part

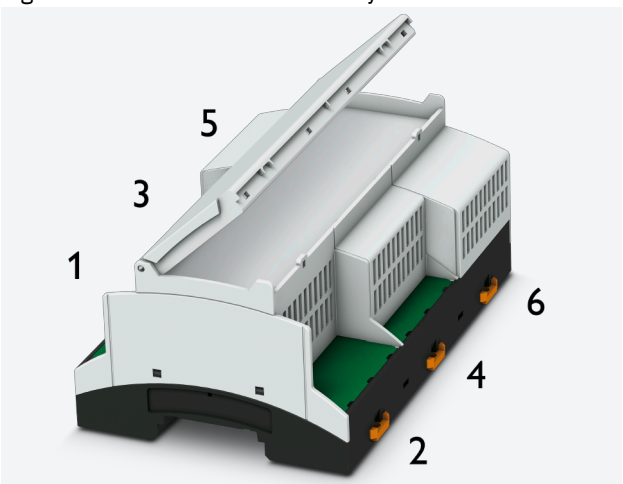
The housings are divided into segments depending on the overall width.

- Overall width 161.6 mm (9HP): six segments
- Overall width 107.6 mm (6HP): four segments
- Overall width 71.6 mm (4HP): four segments

With BC modular, the side panel for each segment on each side of the housing can be arranged in three different positions.

- When the side panel is located at the innermost position, the installation space for the connection technology is maximized to 22 mm (see Figure 5, positions 1 and 2).
- In the middle side panel position, there is 11 mm of space on the outside for the connection technology (see Figure 5, positions 3 and 4).
- The maximum mounting surface for the PCB is available when the side panel of the upper housing part is flush with the outside edge of the lower housing part (see Figure 5, positions 5 and 6).

Figure 5 Positions for order key



Example for Figure 5: BC 161,6 OT 221100 KMGY

- Positions 1 and 2: inside
- Positions 3 and 4: middle
- Positions 5 and 6: outside

Order key

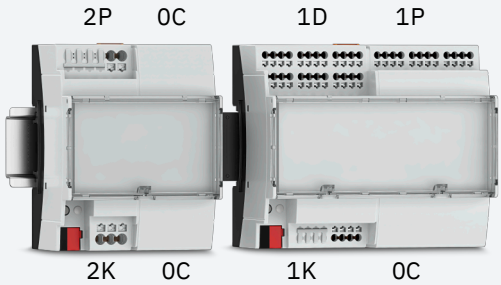
xxxxxxx	/ BC 161,6 OT	/1 /2 /3 /4 /5*/6*	/KMGY
Phoenix Contact number	Overall width BC 161,6 BC 107,6 BC 71,6	Side panel 0 = outside 1 = middle 2 = inside For further positions, see below	Housing color: light gray Other colors possible

* Positions 5 and 6 only for overall width 161.6 mm

	Description
0C	Side panel on the outside without vents (for RJ45, USB, etc.)
1P	For SPT-THR 1,5 series PCB terminal blocks
2P	For SPT-THR 2,5 series PCB terminal blocks
1D	For SPT-THR 1,5 series PCB terminal blocks, double-row
1K	For SPT-THR 1,5 series PCB terminal blocks, with contour for KNX connector*
2K	For SPT-THR 2,5 series PCB terminal blocks, with contour for KNX connector*

* KNX is a fieldbus for building automation

Figure 6 Positions for order key



Maximum number of positions per chamber		BC 71,6	BC 107,6 BC 161,6
1P	SPT-THR 1,5	8 (2 x 4)	12 (3 x 4)
2P	SPT-THR 1,5, double-row	16 (4 x 4)	24 (6 x 4)
1D	SPT-THR 2,5	6 (1 x 6)	8 (2 x 4)
1K	SPT-THR 1,5 for KNX	4	8 (2 x 4)
2K	SPT-THR 2,5 for KNX	3	6

3.4 Select corresponding connection technology

Module	BC 17,8	BC 35,6		BC 53,6		BC 71,6		BC 107,6		BC 161,6		BC 215,6
		U11	U22	U11	U22	U11	U22	U11	U22	U11	U22	U22
PCB terminal blocks with screw connection and tension sleeve												
MKDSO 1,5/4-L-3,5	X	–	–	–	–	–	–	–	–	–	–	–
MKDSO 1,5/4-R-3,5	X	–	–	–	–	–	–	–	–	–	–	–
MKDSO 2,5/3-L	X	–	–	–	–	–	–	–	–	–	–	–
MKDSO 2,5/3-R	X	–	–	–	–	–	–	–	–	–	–	–
PCB terminal blocks with screw connection and tension sleeve												
GMKDS 1,5/...	–	X	X	X	X	X	X	X	X	X	X	X
GMKDS 3/...	–	X	X	X	X	X	X	X	X	X	X	X
MKDS 1,5/...	–	X	X	X	X	X	X	X	X	X	X	X
MKDSN 2,5/...	–	X	X	X	X	X	X	X	X	X	X	X
MKDS 3/...	–	X	X	X	X	X	X	X	X	X	X	X
MKKDS 1,5/...	–	–	X	–	X	–	X	–	X	–	X	X
MKKDSG 3/...	–	–	X	–	X	–	X	–	X	–	X	X
TDPT 2,5/...-SC-5,08		–	X	–	X	–	X	–	X	–	X	X
PCB terminal block with screw connection and wire guard												
PT 1,5/...-5,0-H	–	X	X	X	X	X	X	X	X	X	X	X
PT 1,5/...-PH-5,0	–	X	X	X	X	X	X	X	X	X	X	X
PT 2,5/...-5,0-H	–	X	X	X	X	X	X	X	X	X	X	X
PT 2,5/4-7,5-H	–	X	X	X	X	X	X	X	X	X	X	X
PCB terminal blocks with Push-in spring connection												
FK-MPT 0,5/...-3,5-H	–	X	X	X	X	X	X	X	X	X	X	X
PTDA 1,5/...-PH-3,5	–	–	X	–	X	–	X	–	X	–	X	X
PTDA 1,5/...-PH-5,0	–	–	X	–	X	–	X	–	X	–	X	X
PTSA 0,5/...-2,5-Z	–	X	X	X	X	X	X	X	X	X	X	X
PTSA 0,5/...-2,5-F	–	X	X	X	X	X	X	X	X	X	X	X
PTSA 1,5/...-3,5-Z	–	X	X	X	X	X	X	X	X	X	X	X
PTSA 1,5/...-3,5-F	–	X	X	X	X	X	X	X	X	X	X	X
PTS 1,5/...-5,0-H	–	X	X	X	X	X	X	X	X	X	X	X
SPTA 1/...-3,5	–	X	X	X	X	X	X	X	X	X	X	X
SPTA 1/...-5,0	–	X	X	X	X	X	X	X	X	X	X	X
TDPT 2,5/...-SP-5,08	–	X	–	X	–	X	–	X	–	X	–	–
PCB terminal blocks with spring-cage connection												
ZFKKDS 1,5C-5,0	–	–	X	–	X	–	X	–	X	–	X	X
PCB connectors with Push-in spring connection												
FK-MPT 0,5/...ST-3,5	–	X	X	X	X	X	X	X	X	X	X	X
Direct connectors with Push-in spring connection												
SDDC 1,5/...-PV-3,5	–	–	X	–	X	–	X	–	X	–	X	X
Pin strip												
PST 1,3/...-LH-5,0	–	–	X	–	X	–	X	–	X	–	X	X
PST 1,3/...-LV-5,0	–	–	X	–	X	–	X	–	X	–	X	X
PST 1,0/...-3,5	–	X	X	X	X	X	X	X	X	X	X	X
PST 1,3/...-5,0	–	X	X	X	X	X	X	X	X	X	X	X

Module	BC 17,8	BC 35,6		BC 53,6		BC 71,6		BC 107,6		BC 161,6		BC 215,6
		U11	U22	U11	U22	U11	U22	U11	U22	U11	U22	U22
PCB terminal blocks for the reflow process with Push-in spring connection												
SPT-THR 1,5/...-3,5*	–	X	X	X	X	X	X	X	X	X	X	X
SPT-THR 1,5/...-3,81*	–	X	X	X	X	X	X	X	X	X	X	X
SPTA-THR 1,5/...-5,08*	–	–	X	–	X	–	X	–	X	–	X	X
SPT-THR 2,5/...-5,0†	–	–	X	–	X	–	X	–	X	–	X	X
RJ45 jack connections												
CUC-SP-J1ST-S/R4LT-SMD	–	–	X	–	X	–	X	–	X	–	X	X
CUC-SP-...A/R4LT-LED	–	–	X	–	X	–	X	–	X	–	X	X
CUC-MP-J1ST-A/2R4LT-THR	–	–	X	–	X	–	X	–	X	–	X	X
USB socket connections for wave soldering processes (USB type A)												
CUC-USB2.0-J1S*T-AV/UAF-THT	–	–	X	–	X	–	X	–	X	–	X	X
CUC-USB2.0-J1ST-AH/UAF-THT	–	–	X	–	X	–	X	–	X	–	X	X
CUC-USB2.0-J1ST-S/UAF-THT	–	X	X	X	X	X	X	X	X	X	X	X
USB socket connections for reflow soldering processes (USB type A)												
CUC-USB3.0-J1ST-AV/UAF-THT	–	–	X	–	X	–	X	–	X	–	X	X
CUC-USB3.0-J1ST-AH/UAF-THT	–	–	X	–	X	–	X	–	X	–	X	X
CUC-USB3.0-J1ST-S/UAF-THT	–	X	X	X	X	X	X	X	X	X	X	X
USB socket connection for reflow soldering process (USB type C)												
CUC-USB3.1-J1ST-AH/UCF-SMD/THR	–	X	X	X	X	X	X	X	X	X	X	X

* Filler plug for unassembled terminal area of SPT-THR 1,5: BC F SPT 2,5/4 KMGY, 1340861

† Filler plug for unassembled terminal area of SPT-THR 2,5: BC F SPT 1,5/4 KMGY, 1340862

4 Technical data

Electrical data	
DIN rail connectors HBUS (16-pos.) and HBUS8 (8-pos.), nominal voltage	60 V
DIN rail connector HBUS (16-pos.) and HBUS8 (8-pos.), current carrying capacity for each contact	3 A, maximum total current 25 A
Housing design	
Insulation material	Polycarbonate
Flammability rating in accordance with UL 94	V0
Housing color	Black or light gray (other colors available on request)

5 Safety notes

Only electrically qualified personnel may install and operate the housings. The qualified personnel must be able to recognize and prevent danger.

Do not plug in or disconnect the connectors under load.

Do not connect or disconnect the DIN rail connector under load.

Commission properly functioning products only. Check the products regularly for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.

6 Housing dimensions

6.1 Dimensions of housing

Figure 7 BC...U11, side view

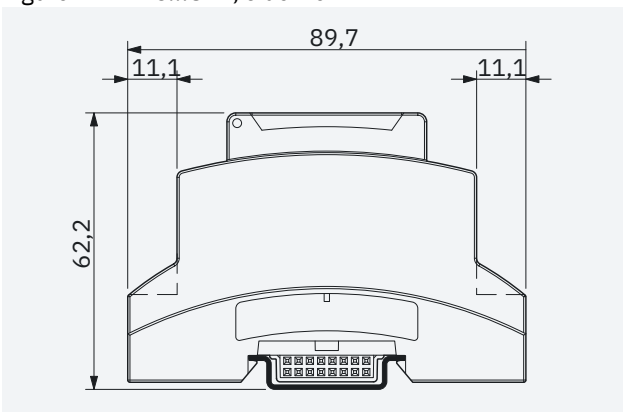


Figure 8 BC...U22, side view

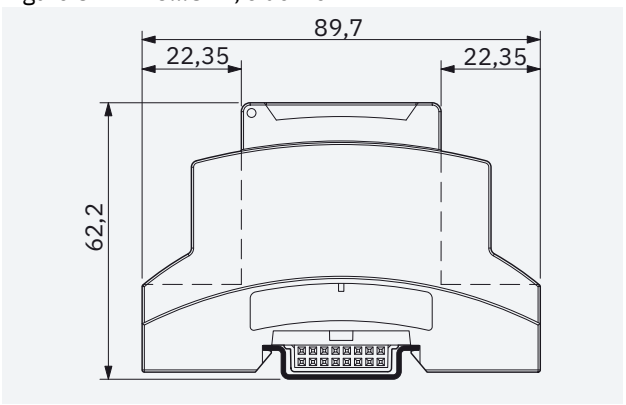
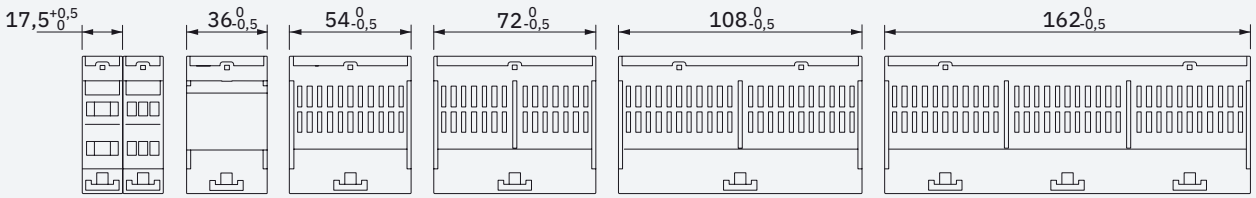


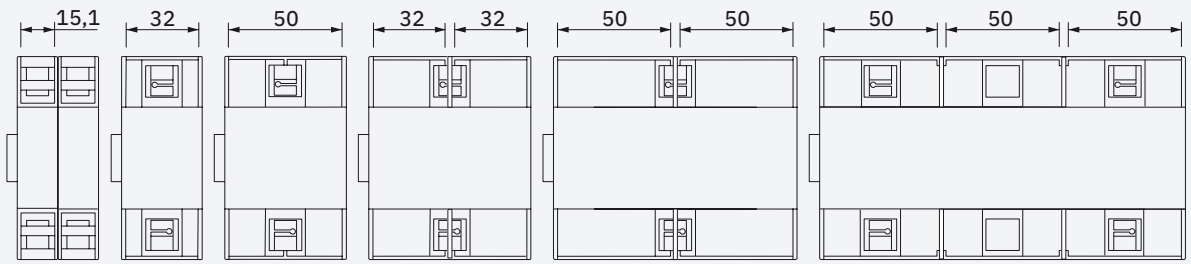
Figure 9 External and inner dimensions

Exterior dimensions, front view



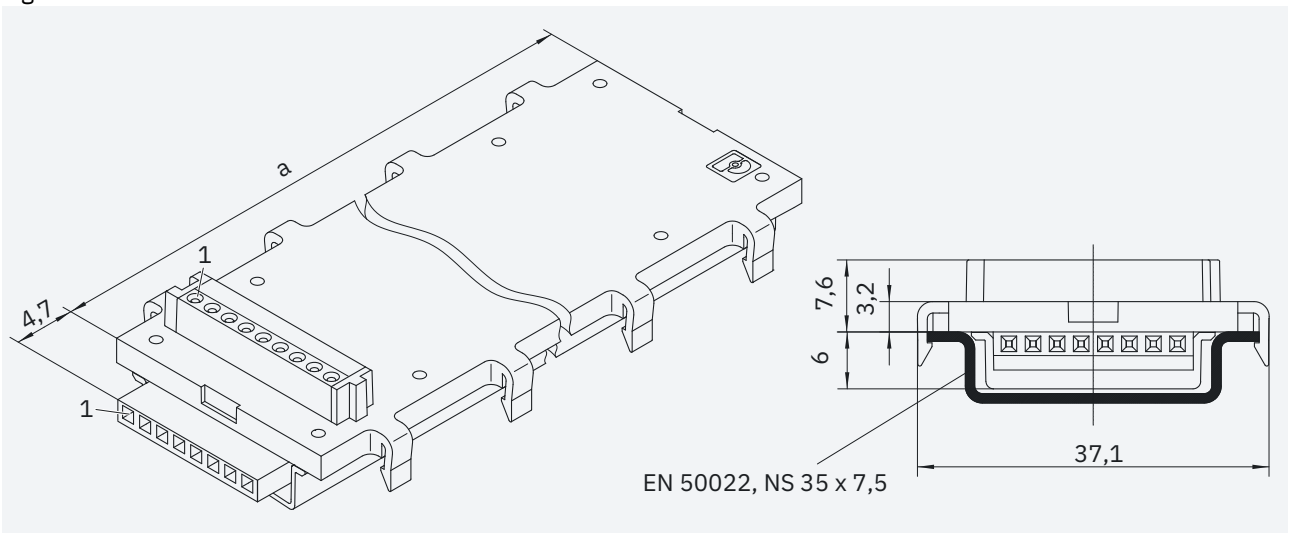
BC 17,8 ... BC 35,6 ... BC 53,6 ... BC 71,6 ... BC 107,6 ... BC 161,6 ...

Interior dimensions, top view



6.2 Dimensions of DIN rail connector HBUS8 (8-pos.)

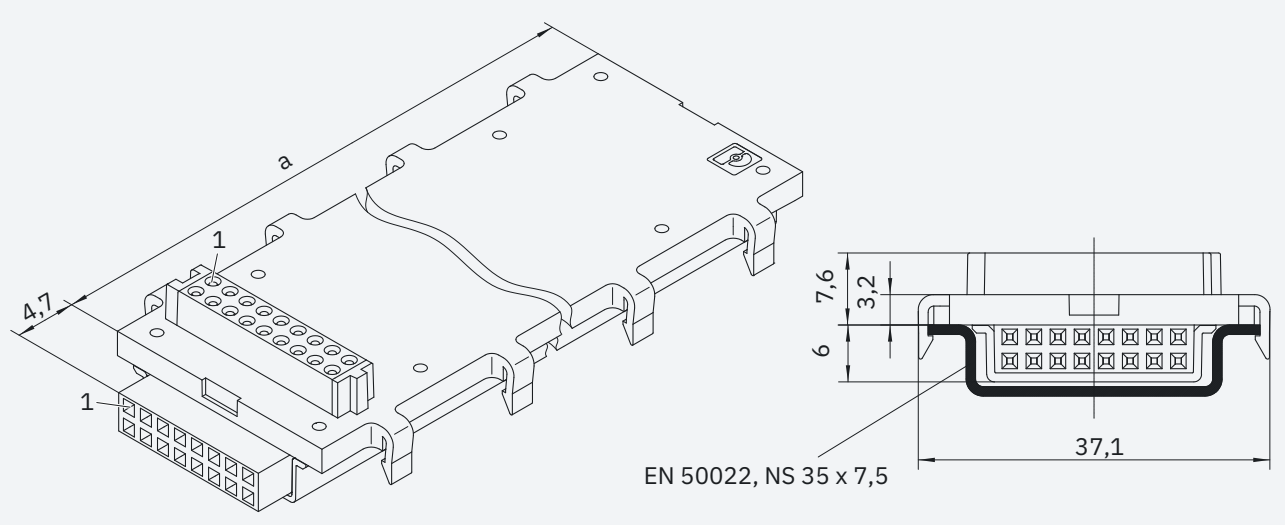
Figure 10 Dimensions of DIN rail connector HBUS8 and DIN rail NS 35



Dimensions for a	
HBUS8 17,8-8P-1S BK	17.8 mm
HBUS8 35,6-8P-1S BK	35.6 mm
HBUS8 53,6-8P-1S BK	53.6 mm
HBUS8 71,6-8P-1S BK	71.6 mm
HBUS8 107,6-8P-1S BK	107.6 mm
HBUS8 161,6-8P-1S BK	161.6 mm

6.3 Dimensions of DIN rail connector HBUS (16-pos.)

Figure 11 Dimensions of DIN rail connector HBUS (16-pos.) and DIN rail NS 35



Dimensions for a	
HBUS 35,6-16P-1S BK	35.6 mm
HBUS 35,6-16P-2S BK	35.6 mm
HBUS 53,6-16P-1S BK	53.6 mm
HBUS 53,6-16P-3S BK	53.6 mm
HBUS 71,6-16P-1S BK	71.6 mm
HBUS 107,6-16P-1S BK	107.6 mm
HBUS 161,6-16P-1S BK	161.6 mm

7 PCB arrangement for BC 17,8 (1HP)

7.1 PCB dimensions

Figure 12 Upper side – mounting side of BC 17,8 with MKDSO 2,5/3

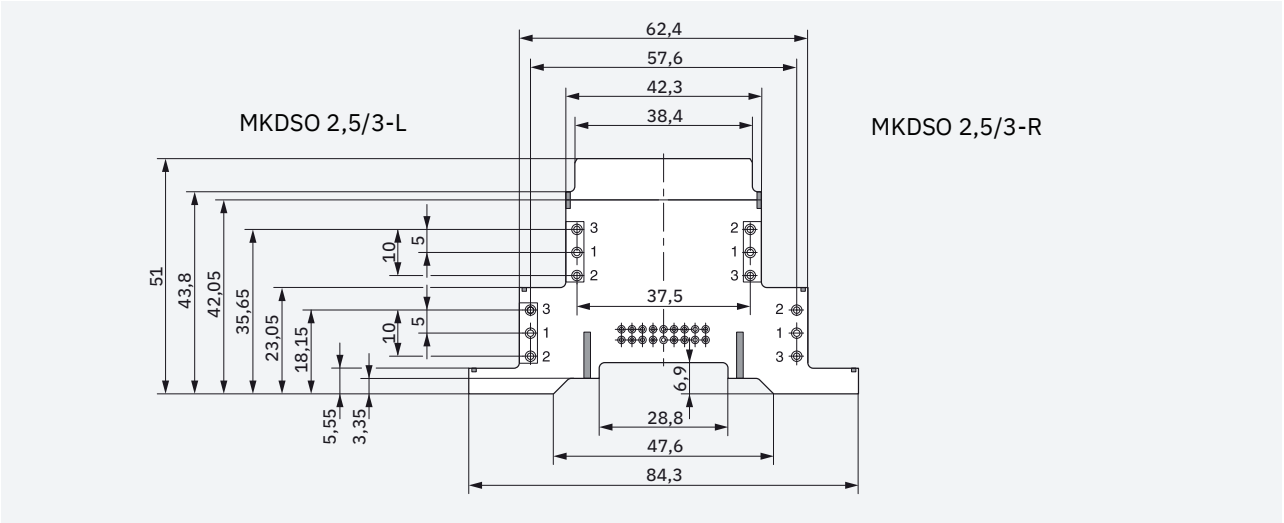
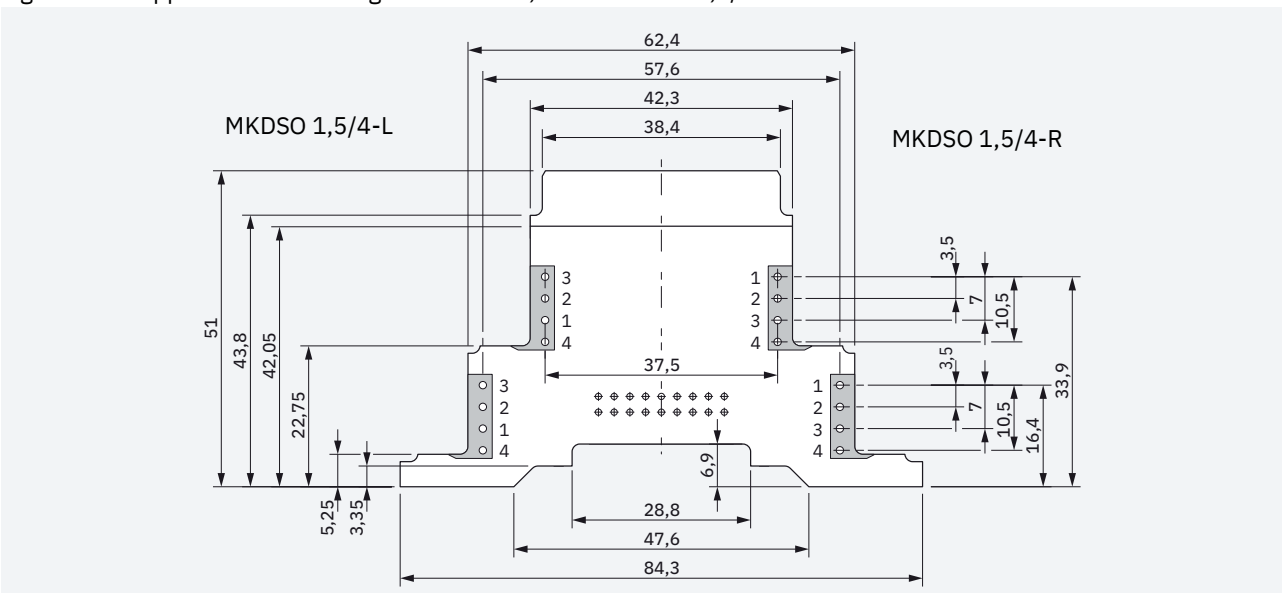
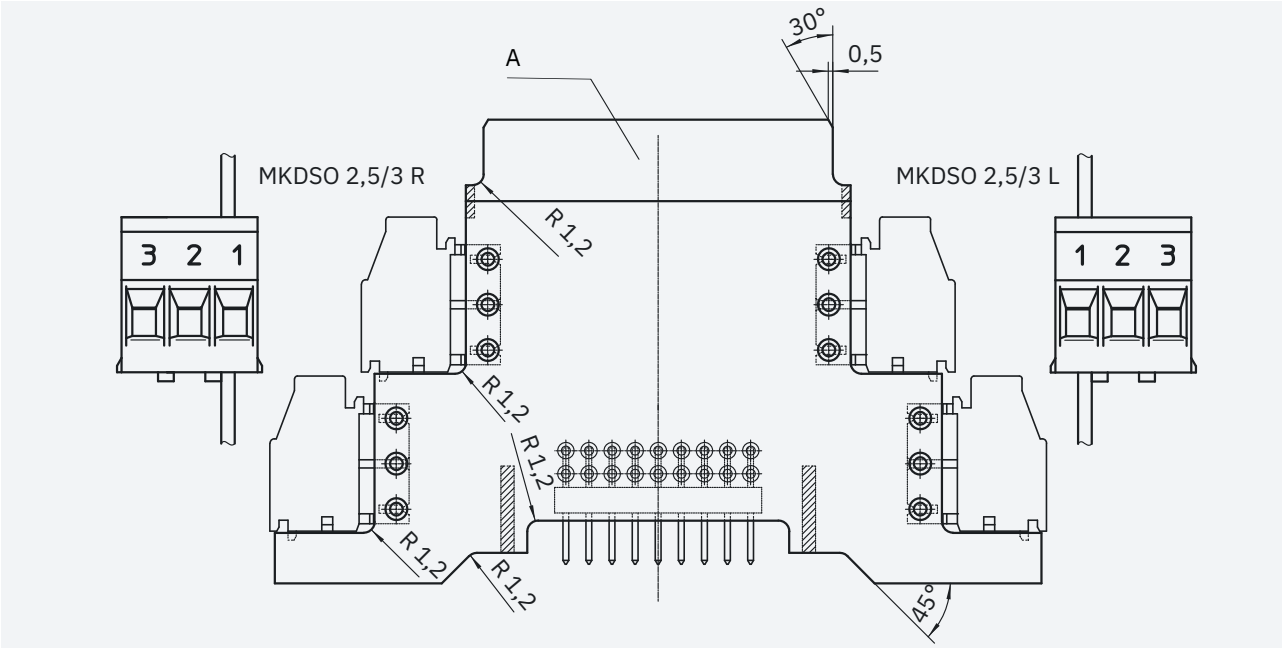


Figure 13 Upper side – mounting side of BC 17,8 with MDKSO 1,5/4



PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

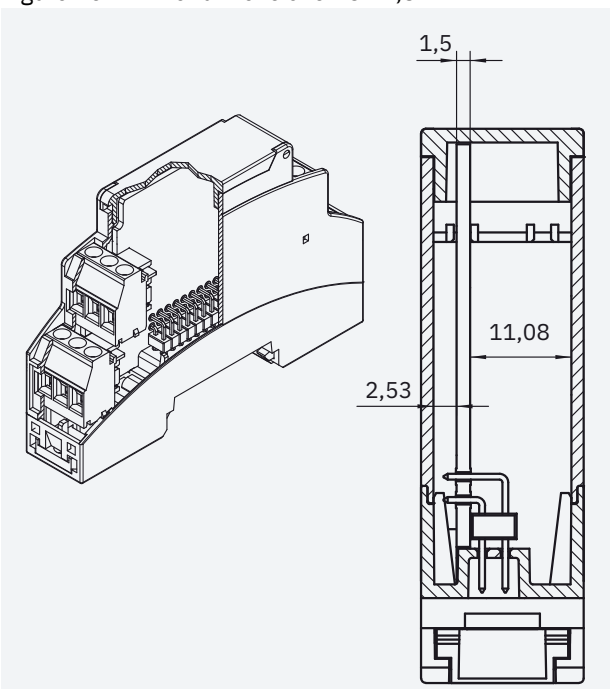
Figure 14 Lower side – soldering side of BC 17,8



A	PCB surface, when no insertion plate is used
PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

7.2 Inner dimensions

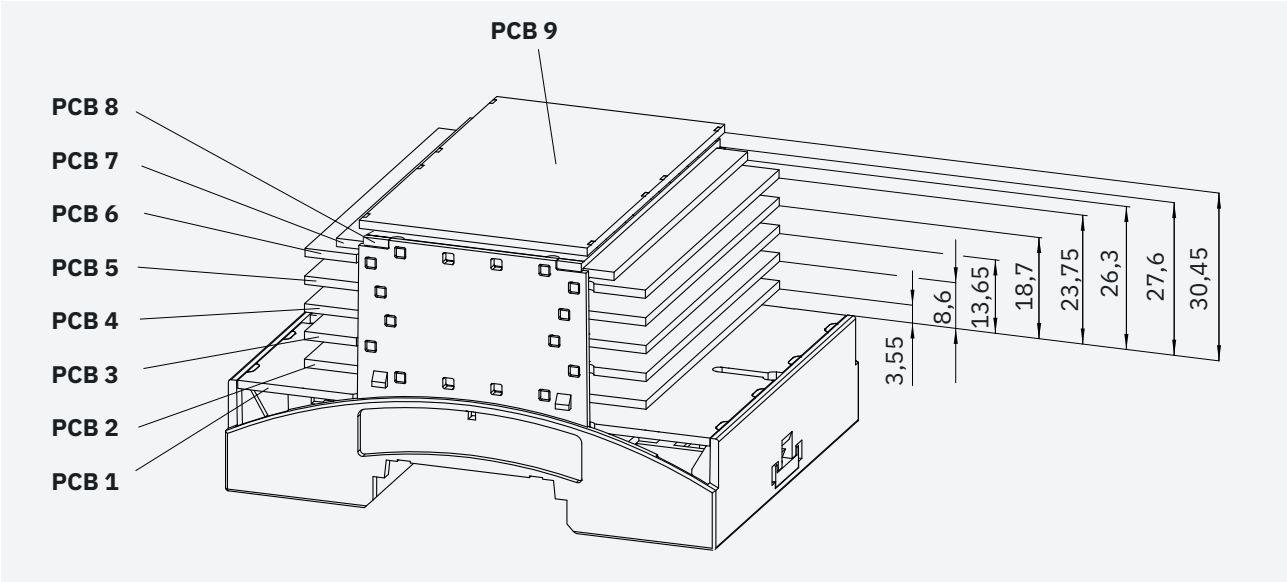
Figure 15 Inner dimensions BC 17,8



8 PCB arrangement for BC 2HP – 12HP

8.1 Plug-in positions for horizontal PCBs

Figure 16 Overview of the PCB plug-in positions



PCB thickness	
PCB 1	1.6 $^{\pm 0.2}$ mm
PCB 2–8	1.8 mm, maximum
PCB 9	1.8 mm, maximum

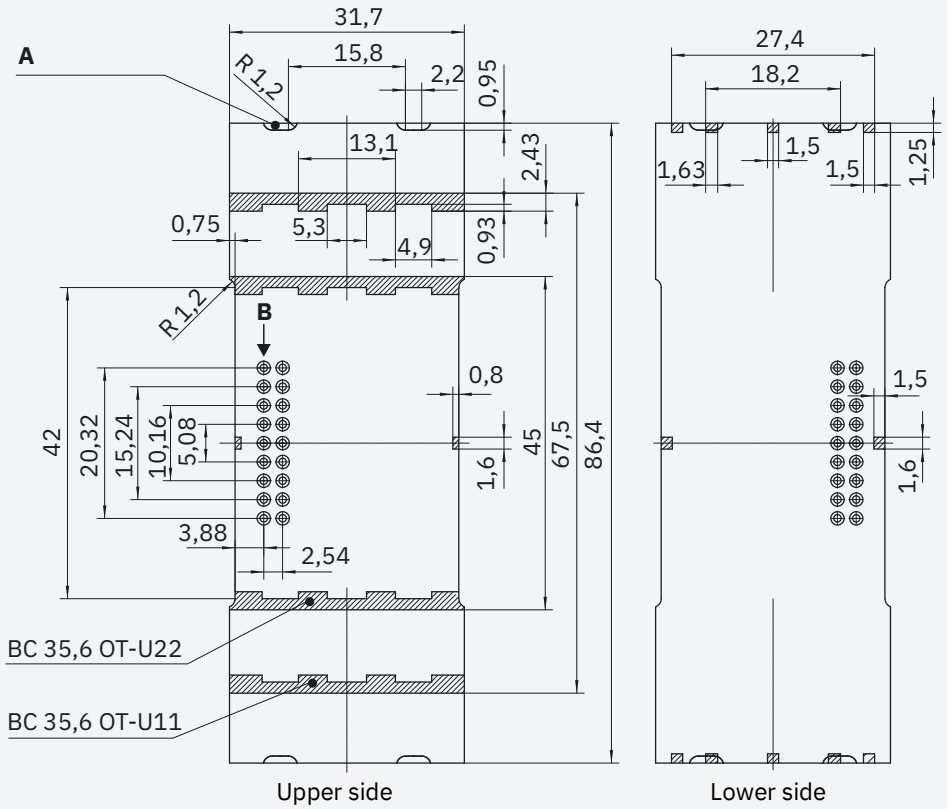
A circuit board at PCB 9 is only possible when an insertion plate is not used. The insertion plate is supplied as standard with the transparent cover.

8.2 Circuit board dimensions for PCB 1 – horizontal

Circuit board dimensions for PCB 1 – horizontal (BC 35,6...)

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 17 Dimensions of PCB 1 (BC 35,6)

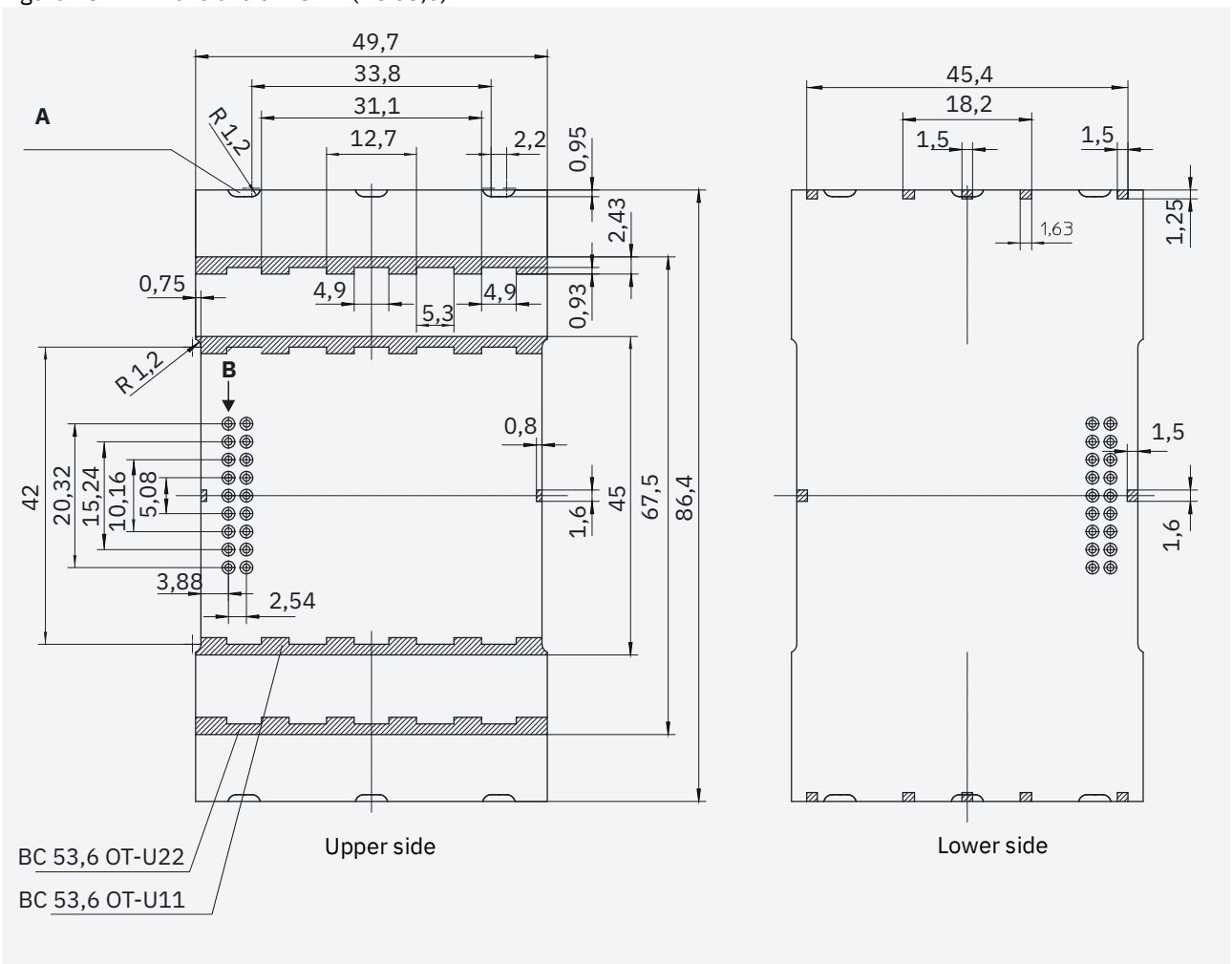


A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions
B	Relevant row for HBUS8

Circuit board dimensions for PCB 1 – horizontal (BC 53,6...)

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 18 Dimensions of PCB 1 (BC 53,6)

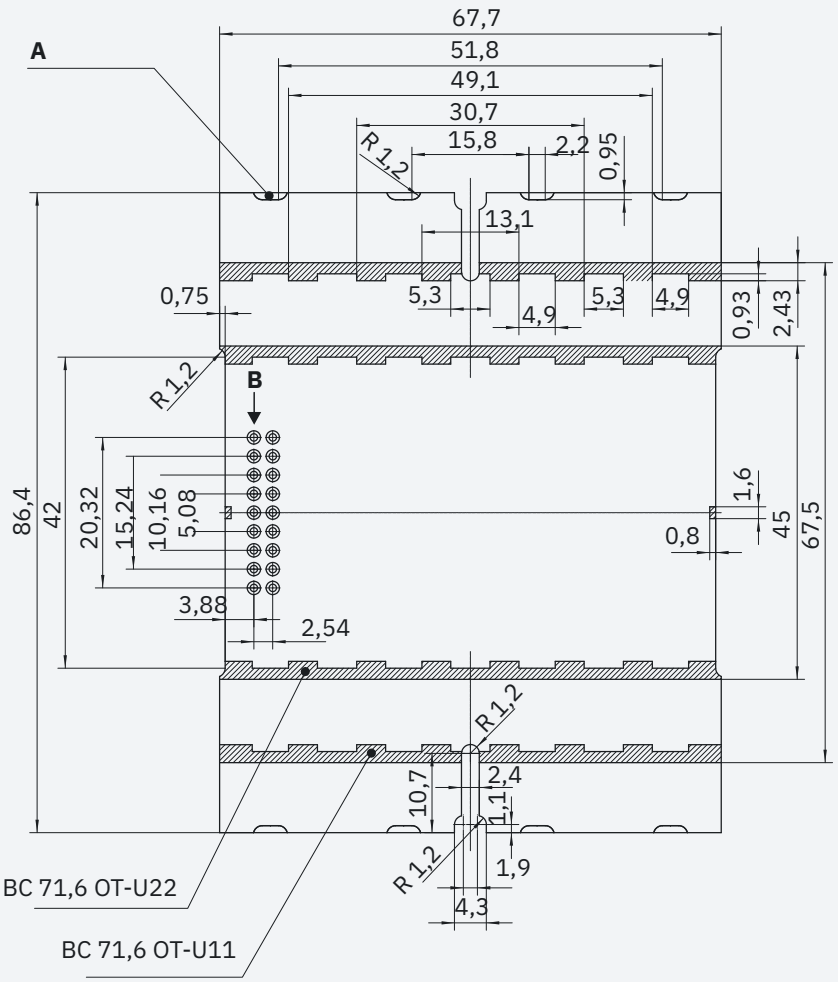


A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions
B	Relevant row for HBUS8

Circuit board dimensions for PCB 1 – horizontal (BC 71,6...)

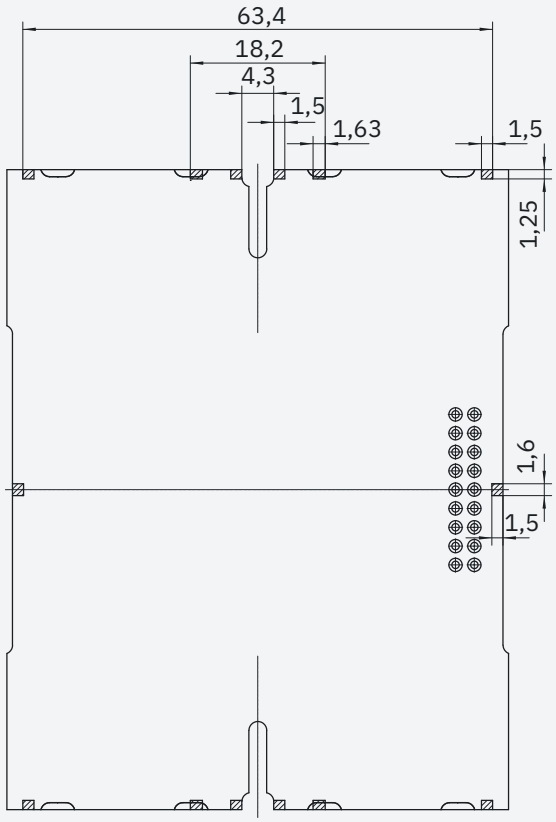
An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 19 Dimensions of PCB 1 (BC 71,6) – upper side



A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions
B	Relevant row for HBUS8

Figure 20 Dimensions of PCB 1 (BC 71,6) – lower side

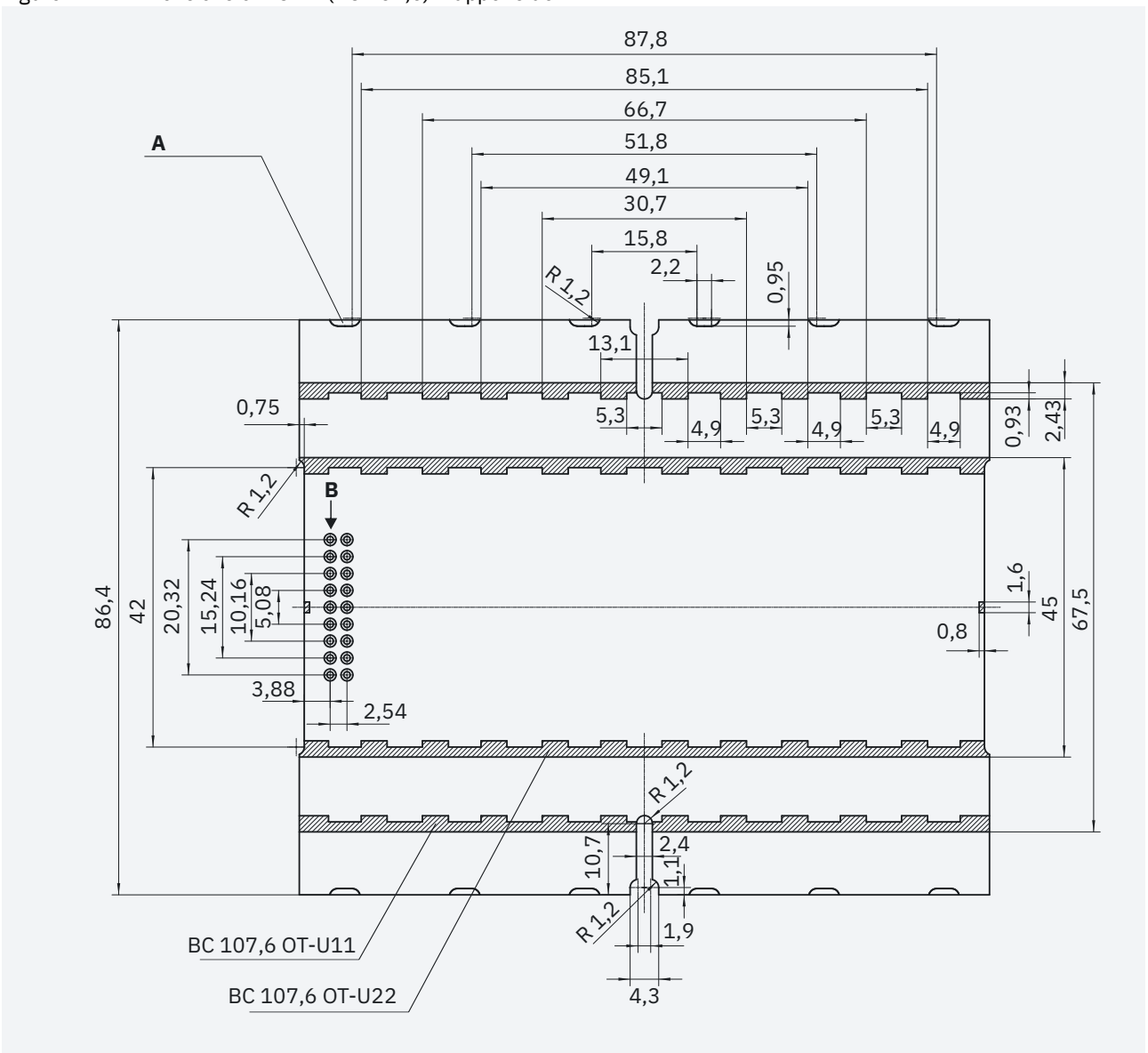


PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions

Circuit board dimensions for PCB 1 – horizontal (BC 107,6...)

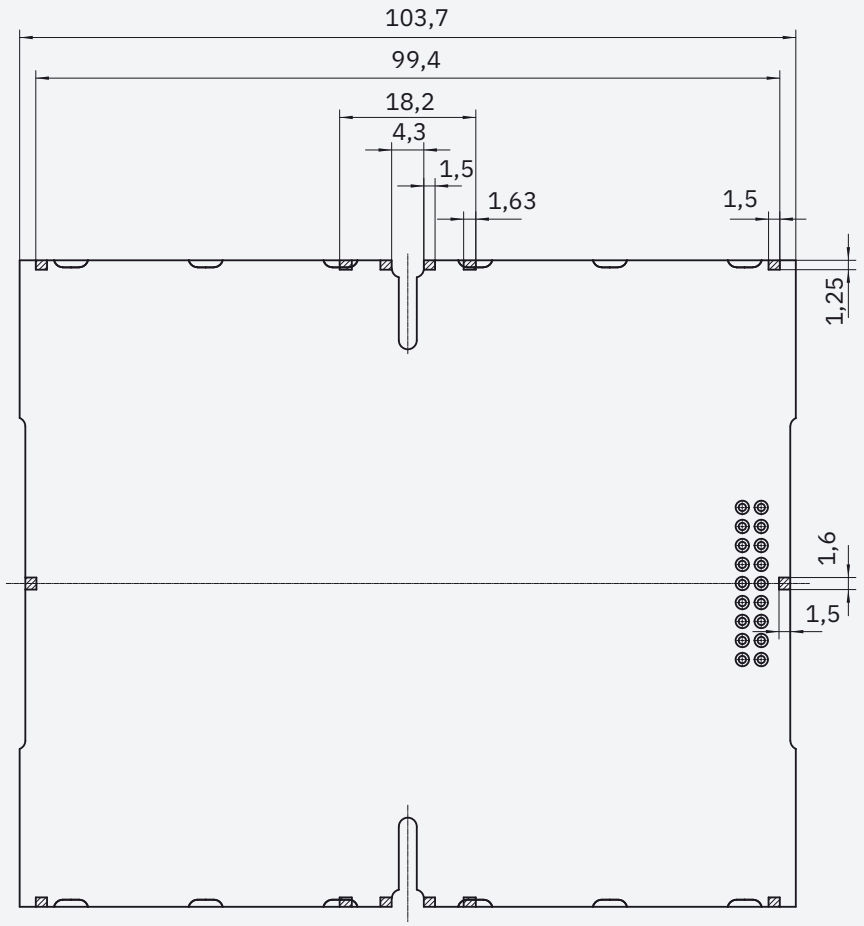
An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 21 Dimensions of PCB 1 (BC 107,6) – upper side



A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions
B	Relevant row for HBUS8

Figure 22 Dimensions of PCB 1 (BC 107,6) – lower side

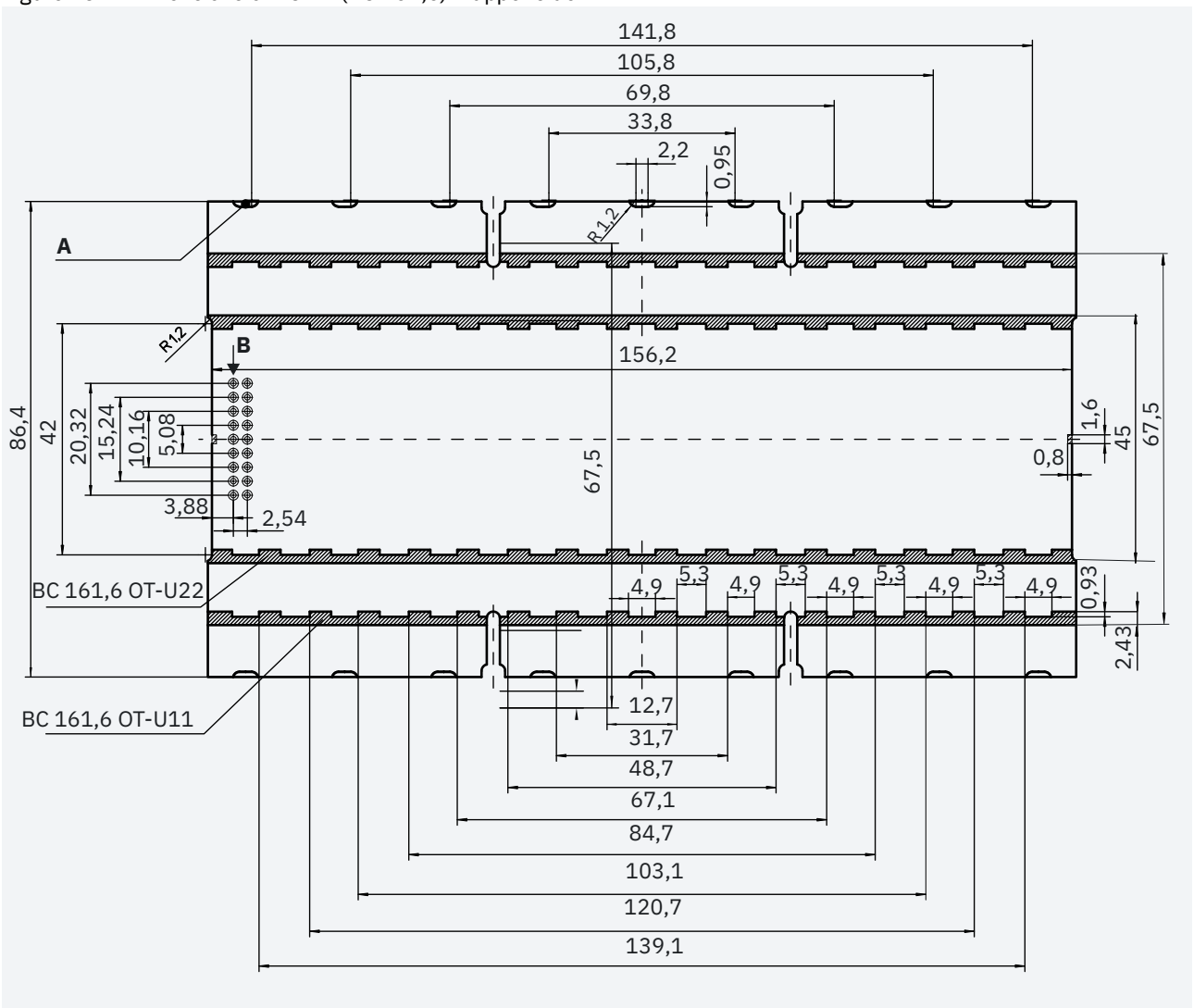


PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions

Circuit board dimensions for PCB 1 – horizontal (BC 161,6...)

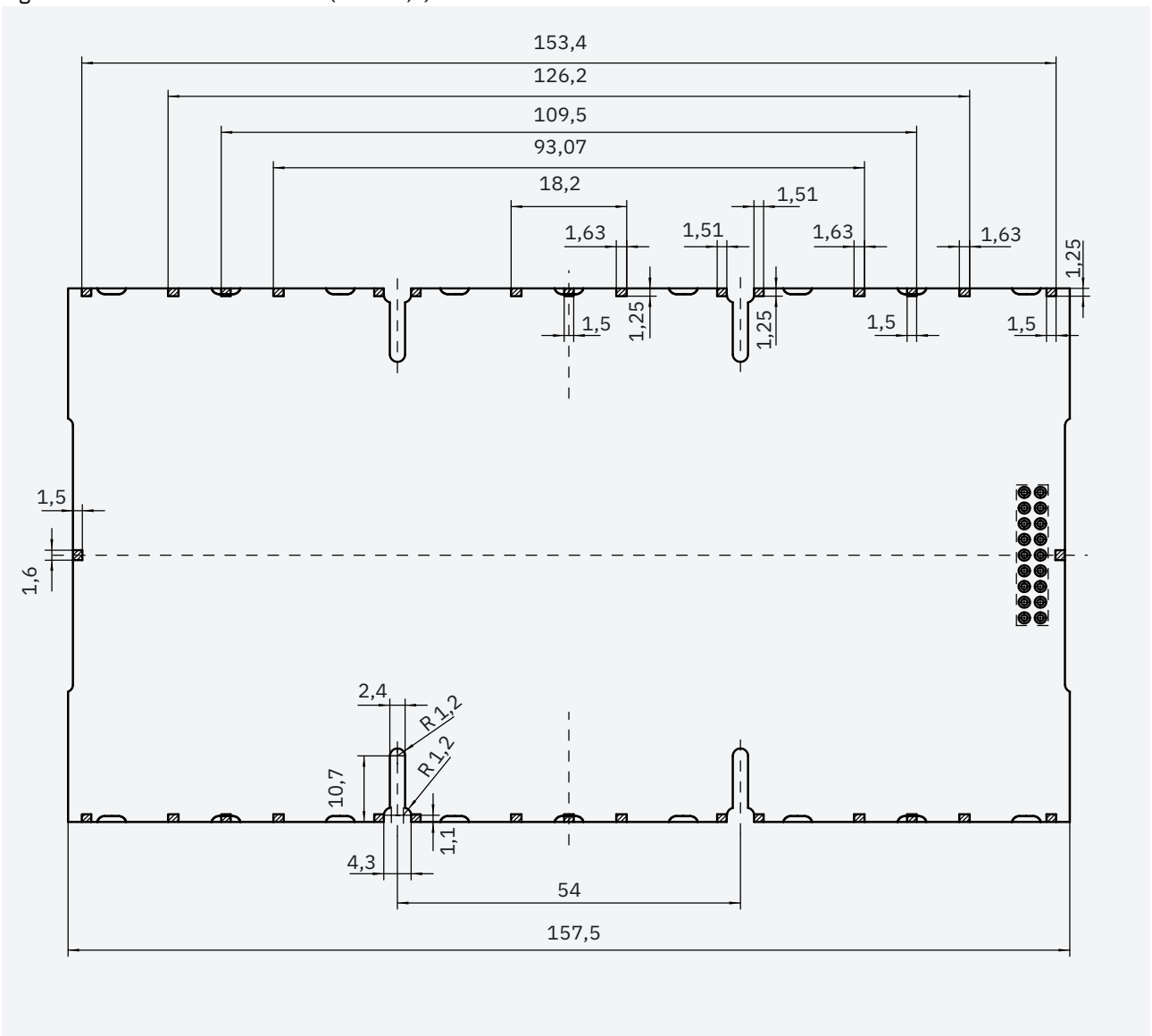
An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 23 Dimensions of PCB 1 (BC 161,6) – upper side



A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions
B	Relevant row for HBUS8

Figure 24 Dimensions of PCB 1 (BC 161,6) – lower side



PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions

8.3 Circuit board dimensions for PCB 2 to 8 – horizontal

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 25 Dimensions of PCB 2

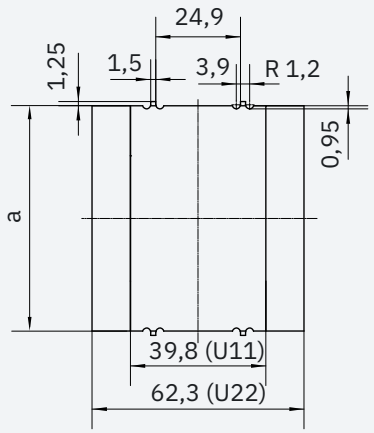


Figure 26 Dimensions of PCB 3

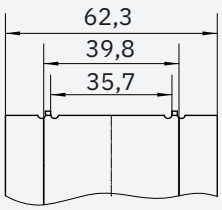


Figure 27 Dimensions of PCB 4

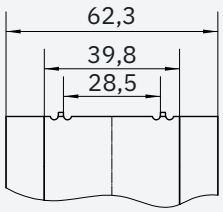


Figure 28 Dimensions of PCB 5

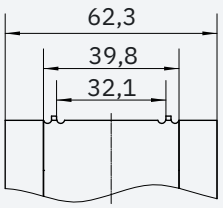


Figure 29 Dimensions of PCB 6

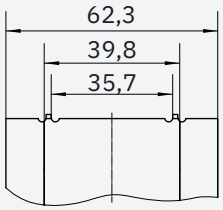


Figure 30 Dimensions of PCB 7

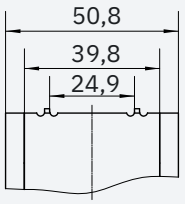
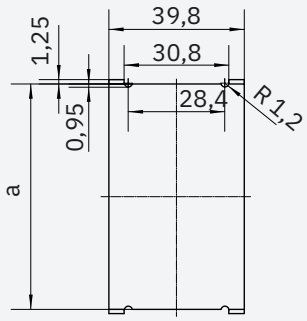


Figure 31 Dimensions of PCB 8



Dimensions for a	
BC 35,6 UT	30.3
BC 53,6 UT	48.3
BC 71,6 UT	66.3
BC 107,6 UT	102.3
BC 161,6 UT	156.3

PCB thickness	1.8 mm, maximum

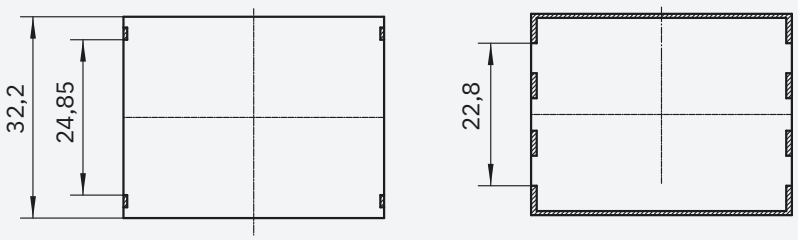
8.4 Circuit board dimensions for PCB 9 – horizontal

A circuit board at PCB 9 is only possible when an insertion plate is not used. The insertion plate is supplied as standard with the transparent cover.

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

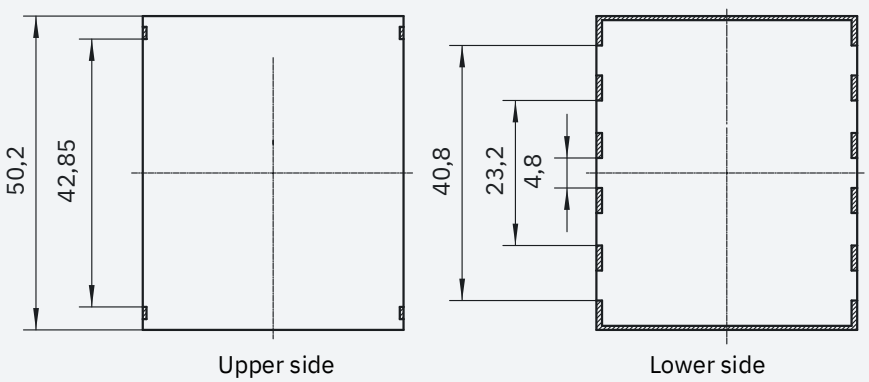
Circuit board dimensions for PCB 9 – horizontal (BC 35,6...)

Figure 32 Dimensions of PCB 9 (BC 35,6)



Circuit board dimensions for PCB 9 – horizontal (BC 53,6...)

Figure 33 Dimensions of PCB 9 (BC 53,6)

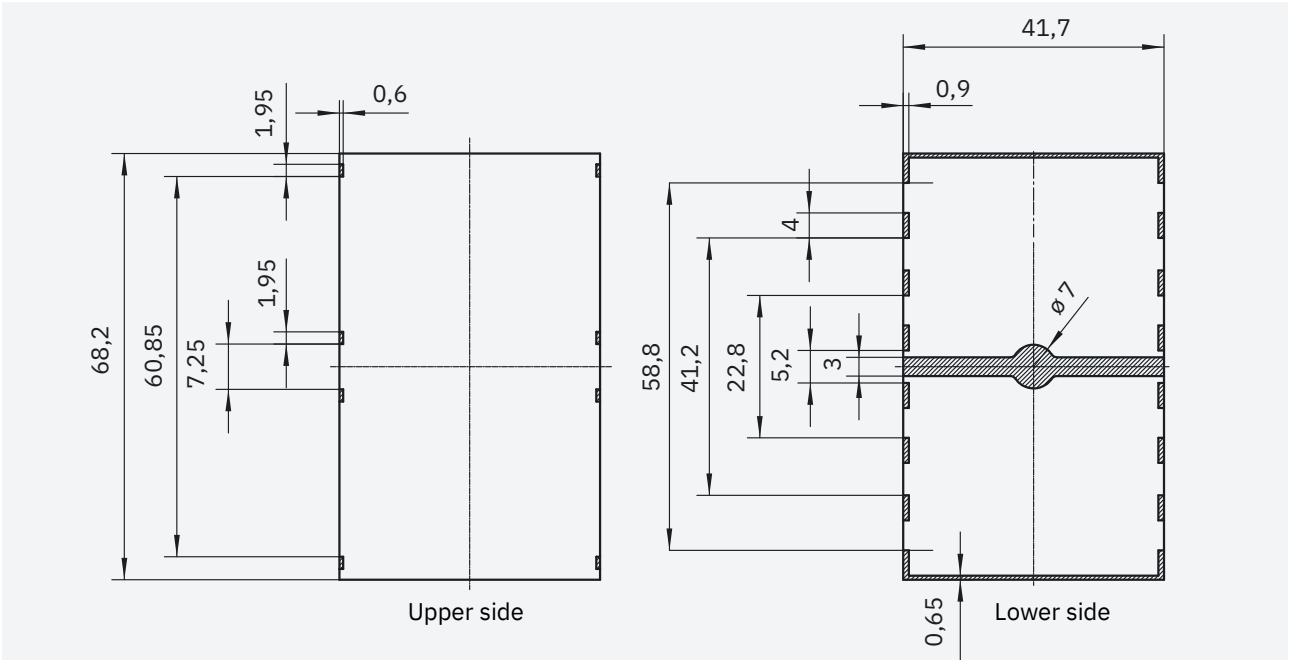


PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

Circuit board dimensions for PCB 9 – horizontal (BC 71,6...)

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 34 Dimensions of PCB 9 (BC 71,6)

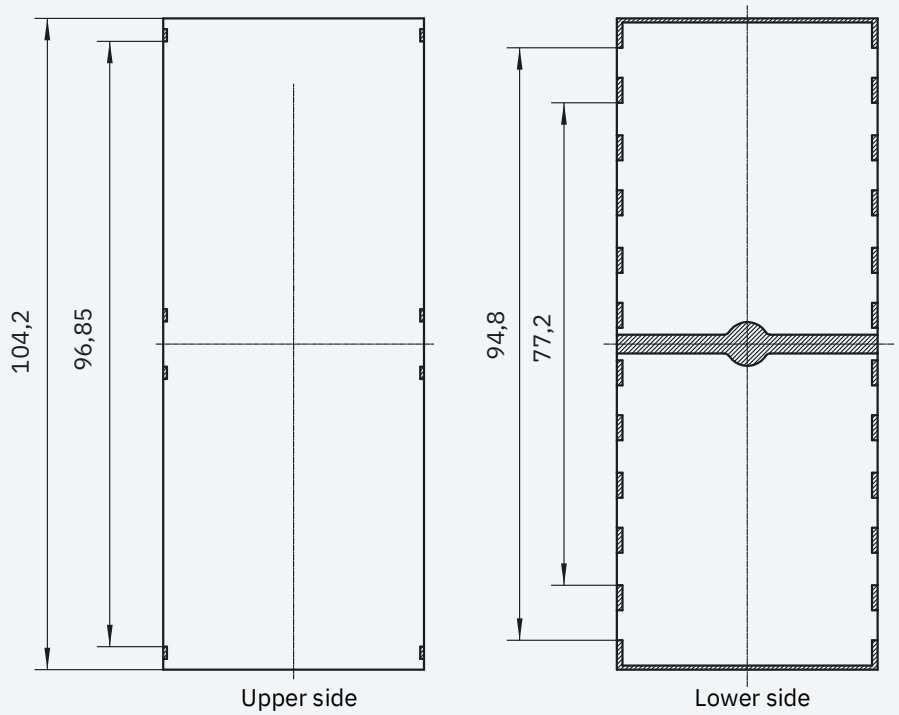


PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

Circuit board dimensions for PCB 9 – horizontal (BC 107,6...)

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 35 Dimensions of PCB 9 (BC 107,6)

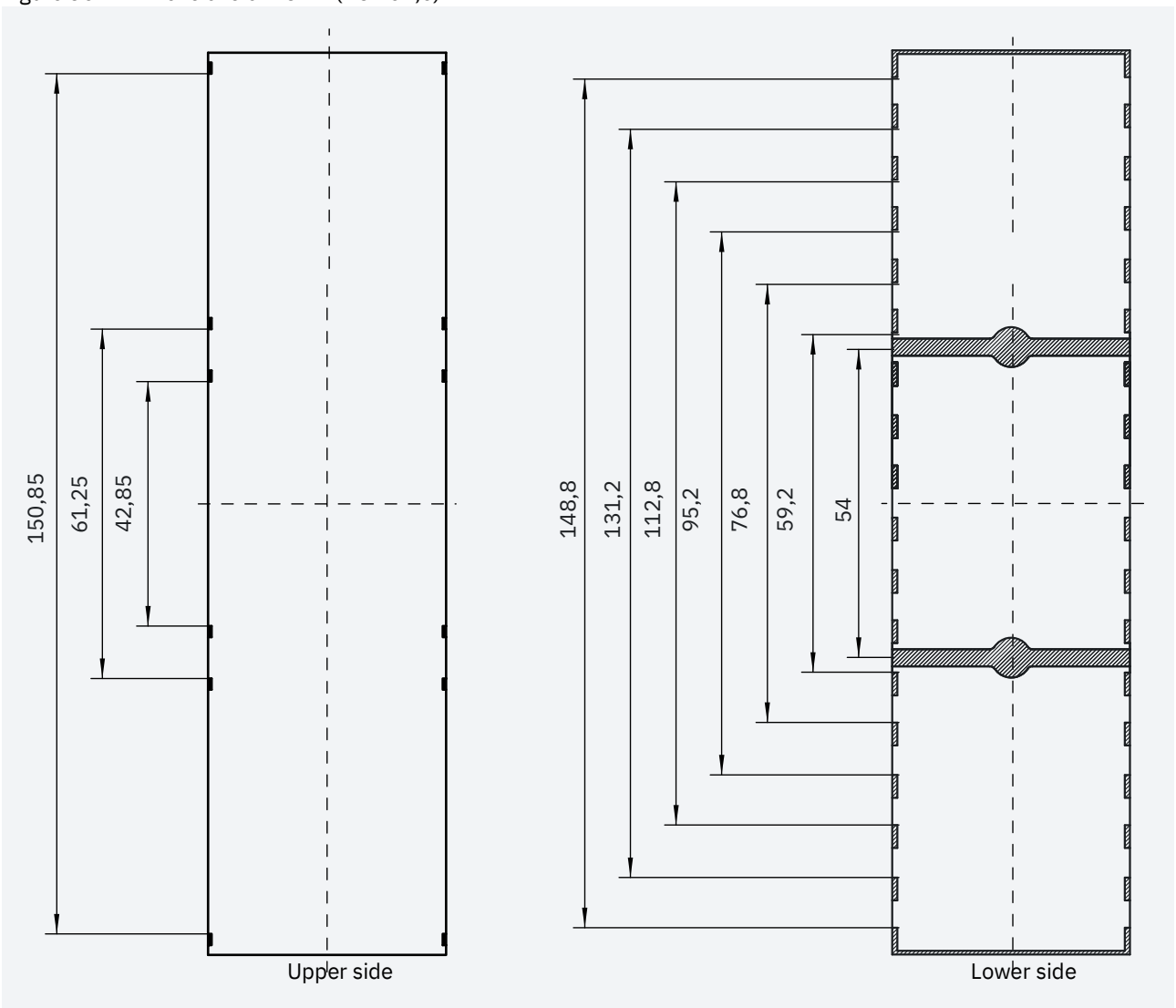


PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

Circuit board dimensions for PCB 9 – horizontal (BC 161,6...)

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 21.

Figure 36 Dimensions of PCB 9 (BC 161,6)



PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

8.5 Perpendicular PCBs – transverse to the DIN rail

Figure 37 Dimensions of BC...U11

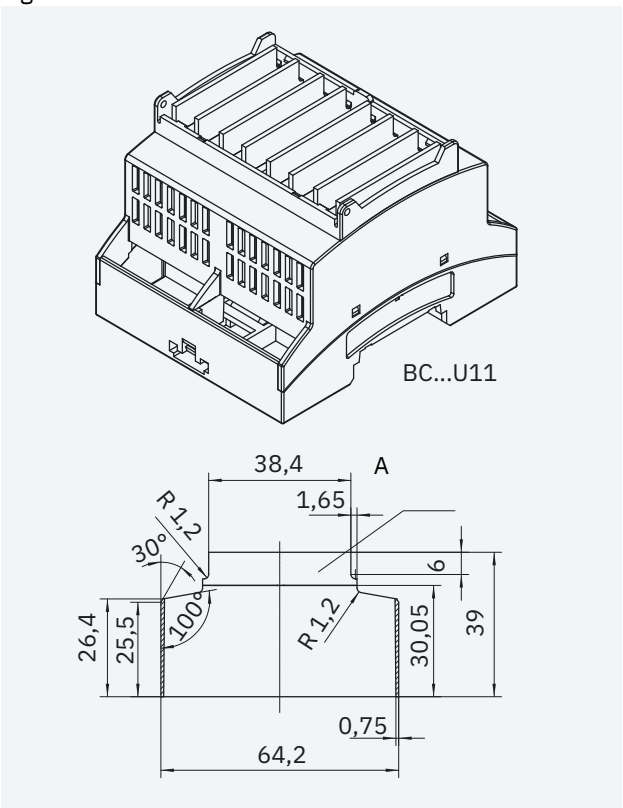
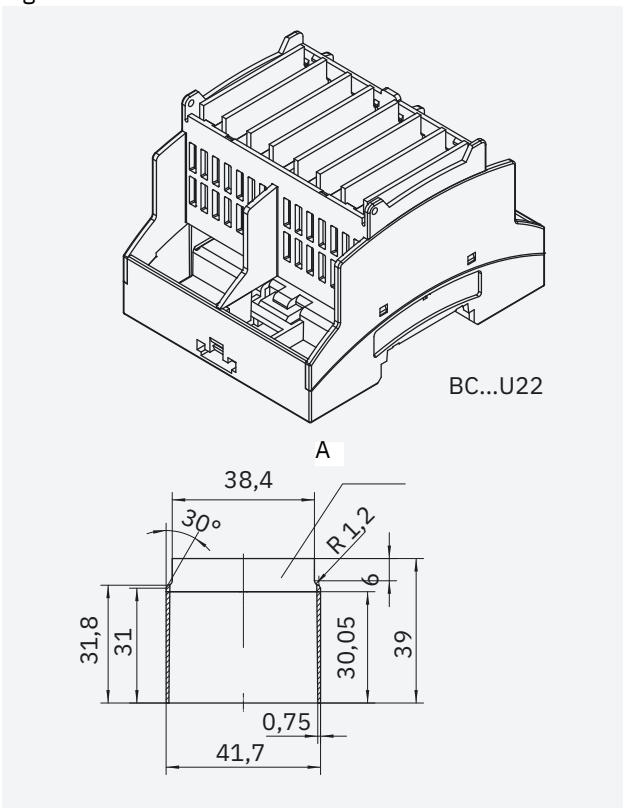
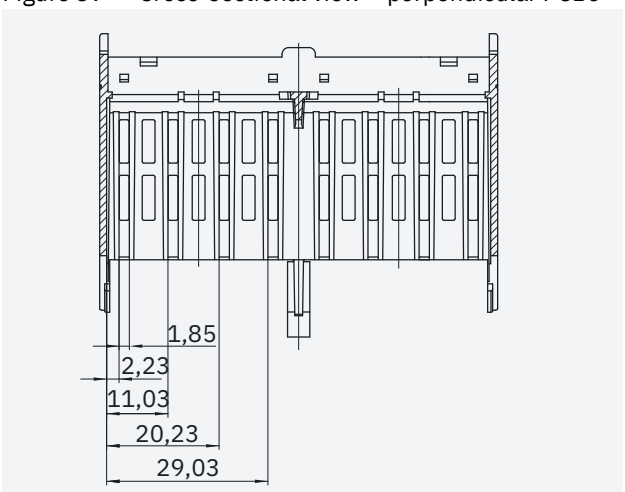


Figure 38 Dimensions of BC...U22



PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions
A	PCB surface, when no insertion plate is used

Figure 39 Cross-sectional view – perpendicular PCBs



8.6 Perpendicular PCBs – parallel to the DIN rail

Figure 40 Perpendicular PCBs arranged parallel to the DIN rail

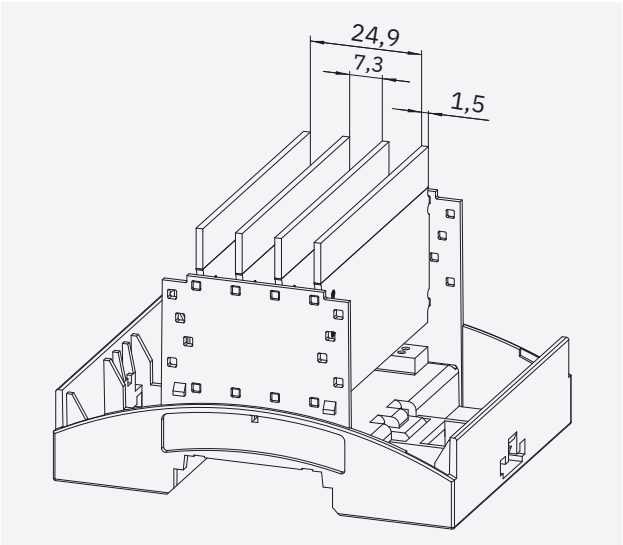
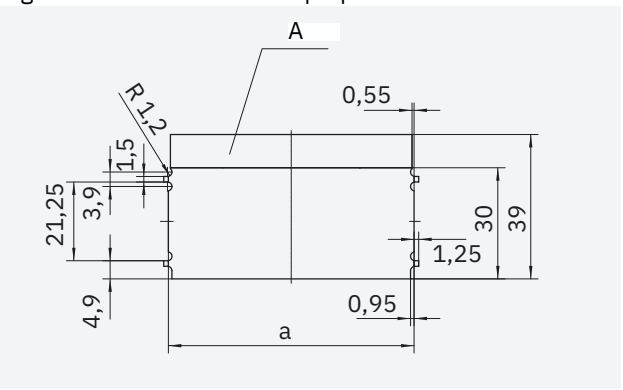


Figure 41 Dimensions for perpendicular PCBs



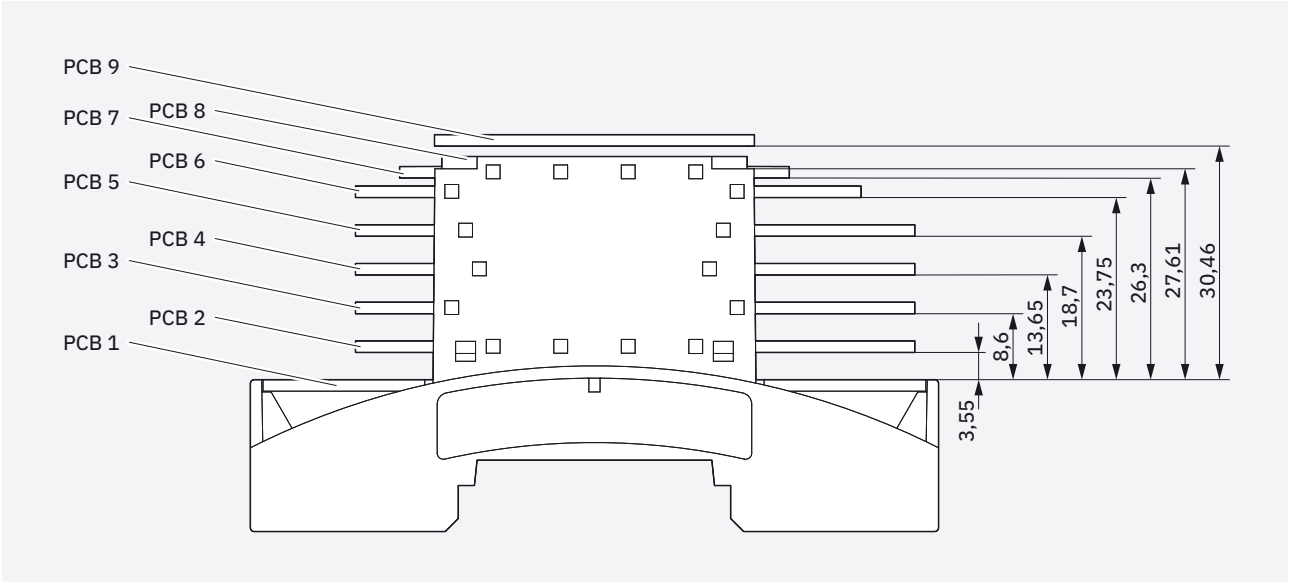
Dimensions for a	
BC 35,6 UT	30.3
BC 53,6 UT	48.3
BC 71,6 UT	66.3
BC 107,6 UT	102.3
BC 161,6 UT	156.3

PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions
A	PCB surface, when no insertion plate is used

9 PCB arrangement for BC 161,6 modular

9.1 Plug-in positions for horizontal PCBs

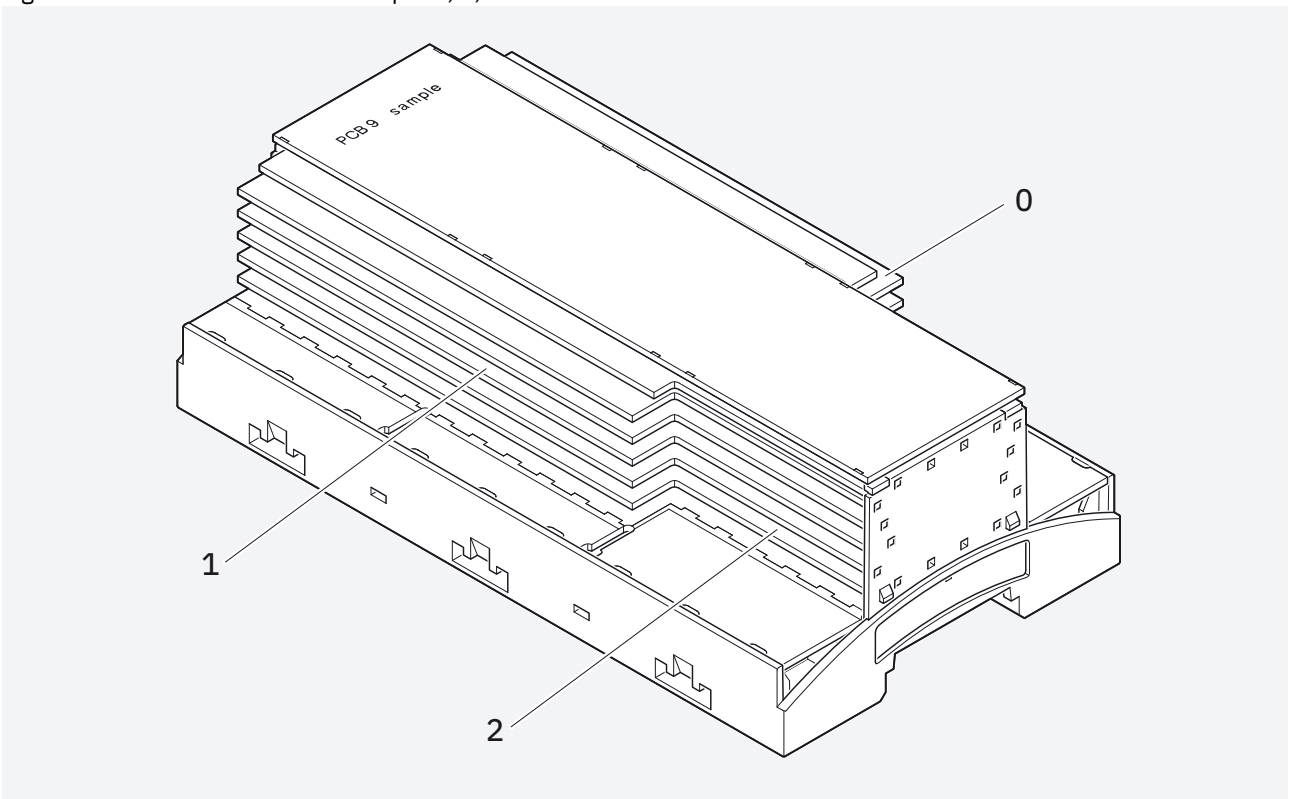
Figure 42 Overview of the plug-in positions for horizontal PCBs



PCB thickness	
PCB 1	1.6 $^{\pm 0.2}$ mm
PCB 2–8	1.8 mm, maximum
PCB 9	1.8 mm, maximum

9.2 Versions for the terminal installation space

Figure 43 Terminal installation depth 0, 1, and 2

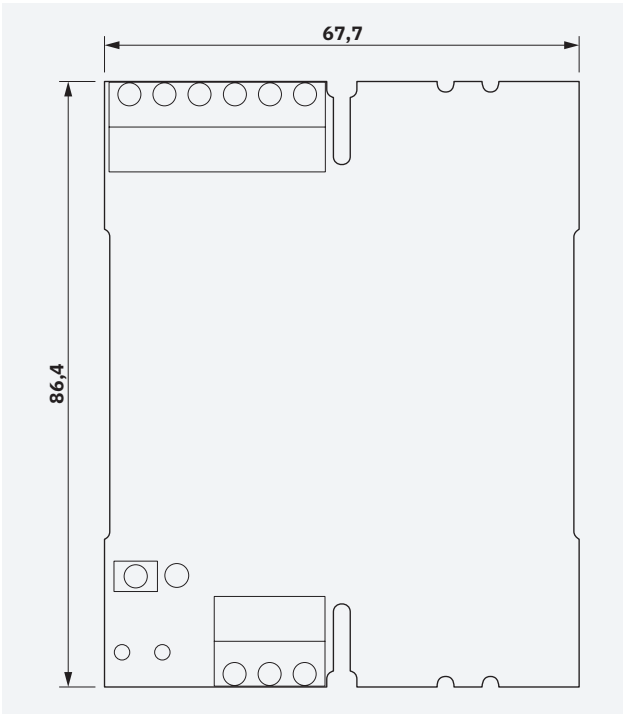


Version	Terminal installation depth
0	0 mm
1	11 mm
2	22 mm

9.3 Circuit board dimensions for PCB 1 – horizontal

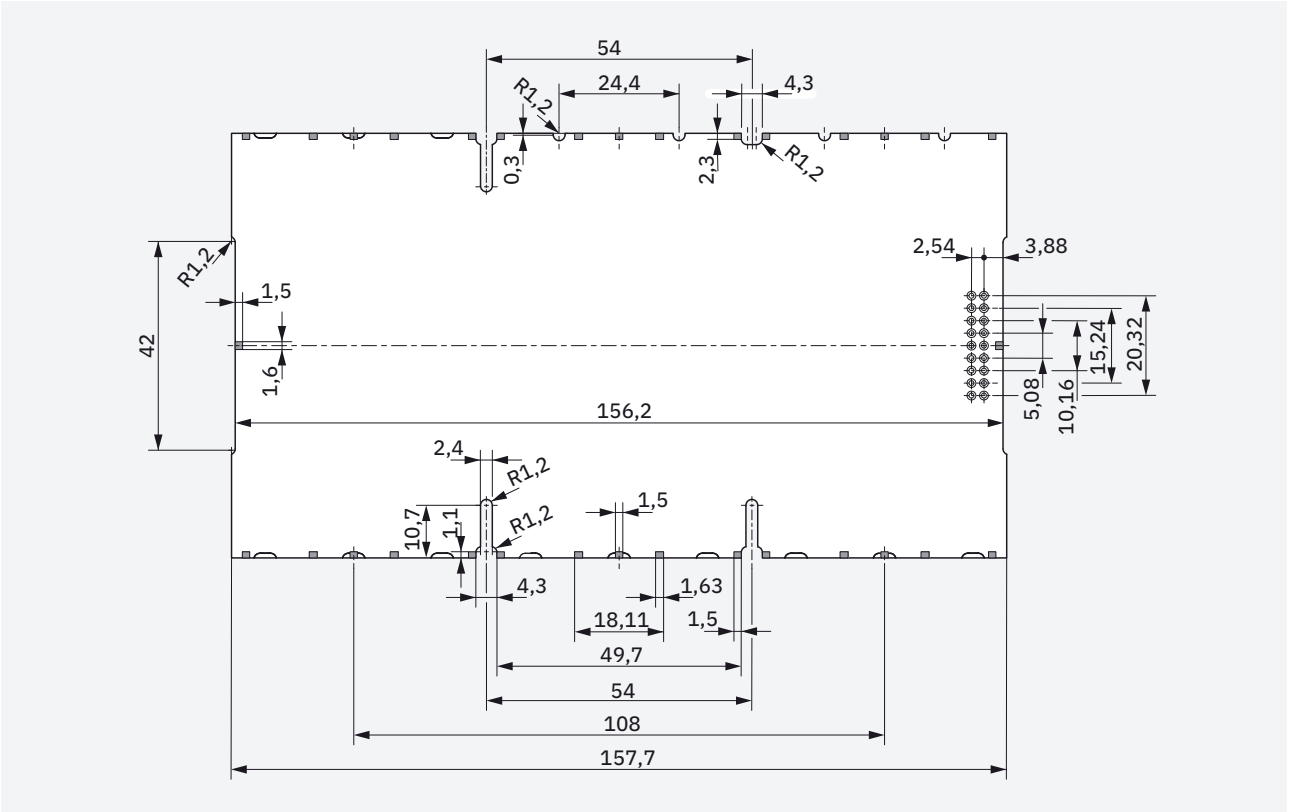
An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 37.

Figure 44 Upper side – mounting side of PCB 1, BC modular 71,6 (example: BC 71,6 2P2K00C HBUS DEV-PCB)



A	Contour for filler plug
PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions

Figure 45 Lower side – soldering side of PCB 1, BC modular 161,6 (example: BC 161,6 OT 010122)



PCB thickness	1.6 $^{\pm 0.2}$ mm
	Keep-out area, no components at these positions

9.4 Circuit board dimensions for PCB 2 to 8 – horizontal

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 37.

Figure 46 Dimensions of PCB 2 (example: BC 161,6 OT 010122)

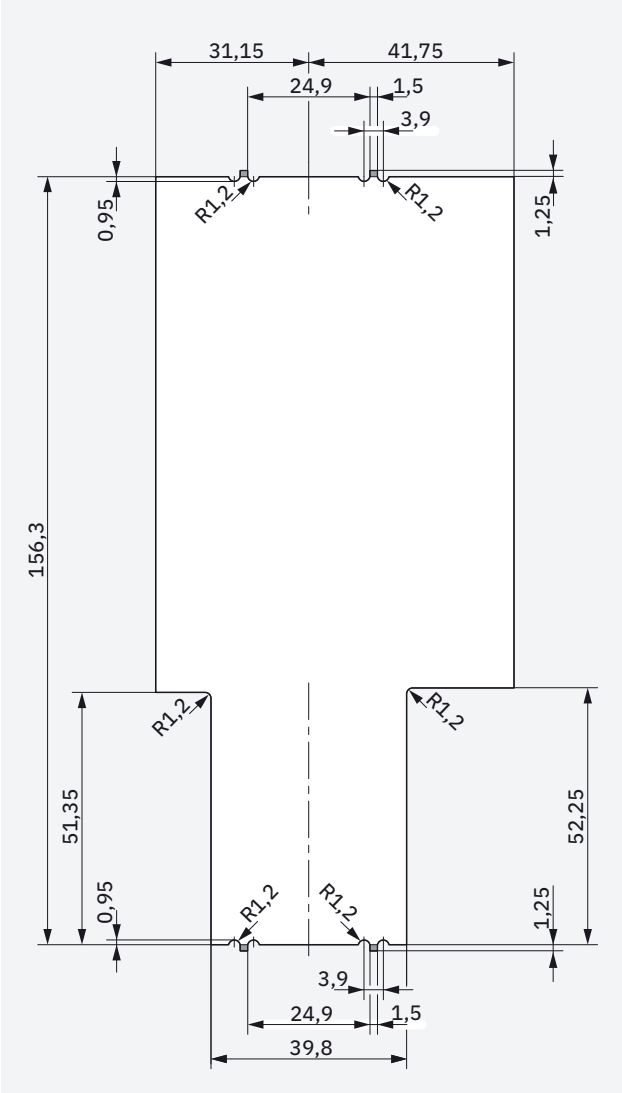


Figure 47 Dimensions of PCB 3 (example: BC 161,6 OT 010122)

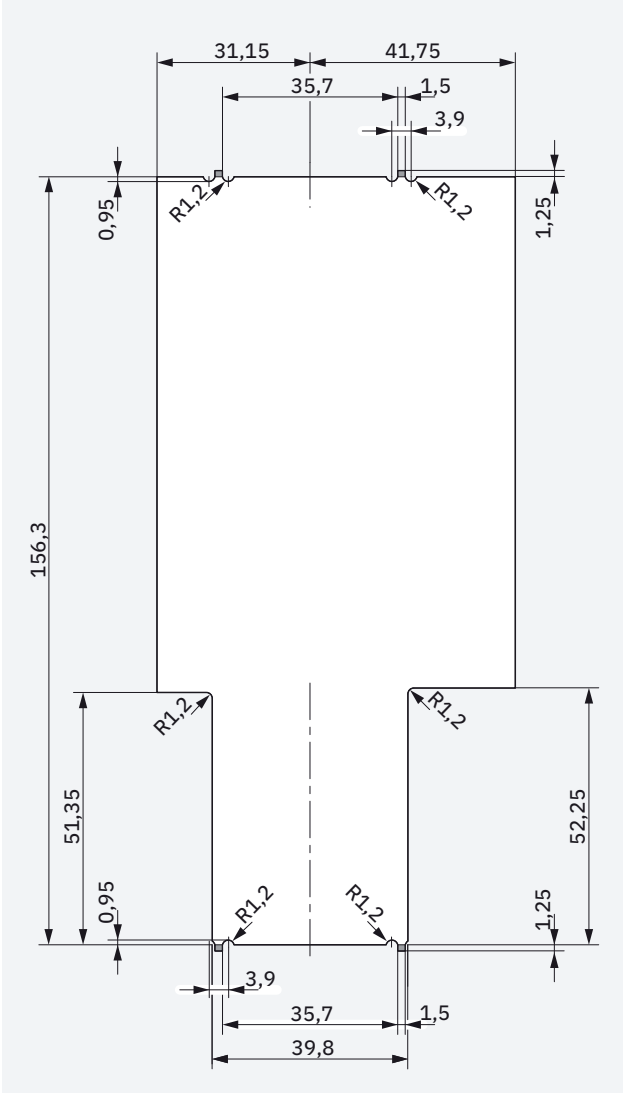


Figure 48 Dimensions of PCB 4
(example: BC 161,6 OT 010122)

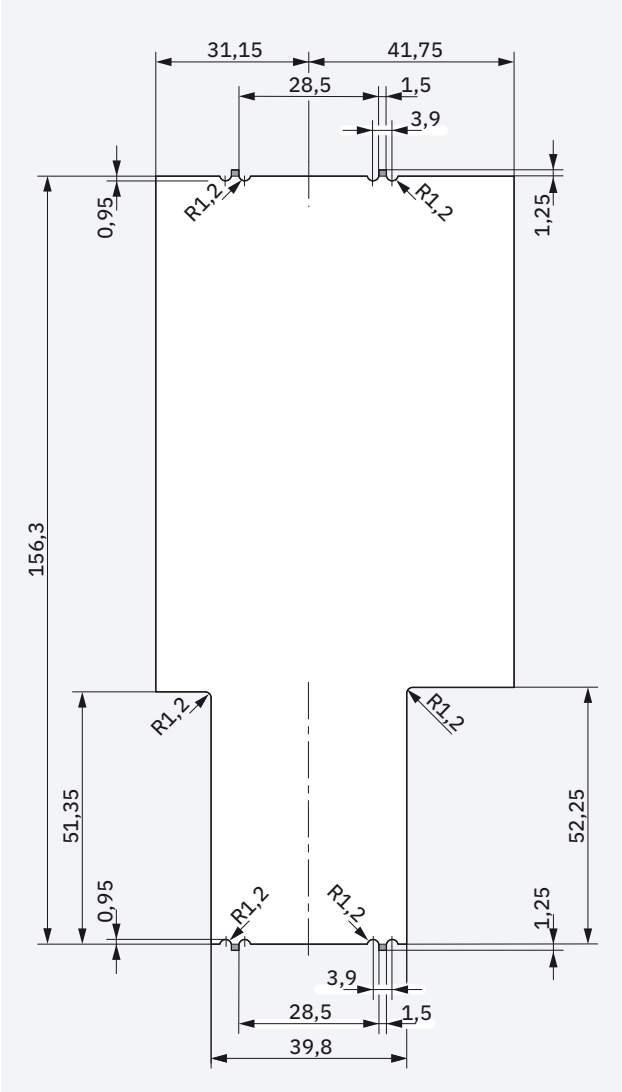


Figure 49 Dimensions of PCB 5
(example: BC 161,6 OT 010122)

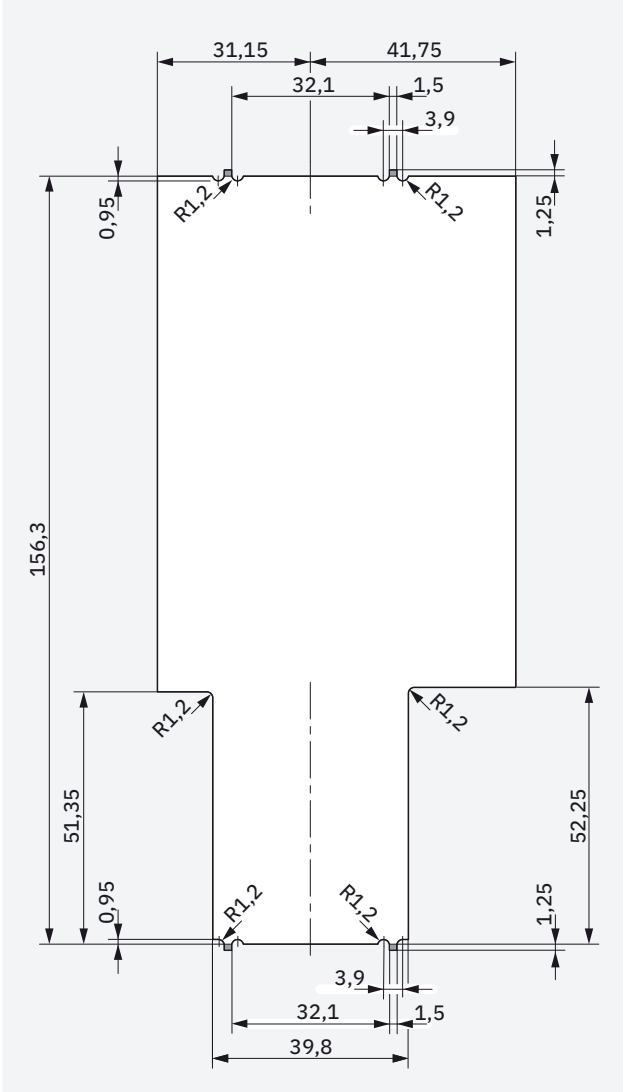


Figure 50 Dimensions of PCB 6
(example: BC 161,6 OT 010122)

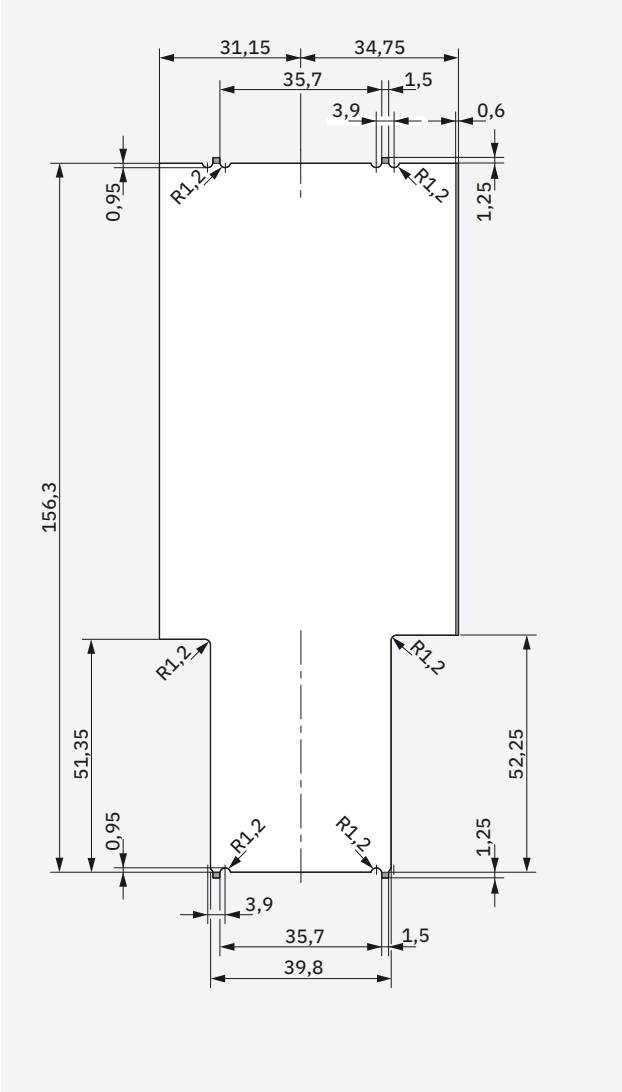


Figure 51 Dimensions of PCB 7
(example: BC 161,6 OT 010122)

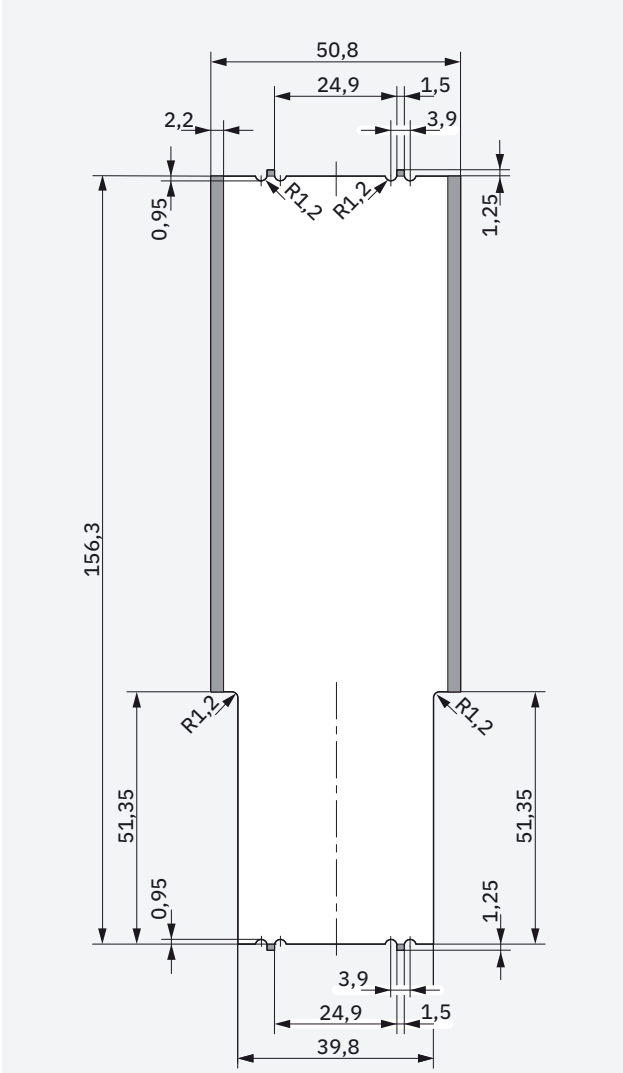
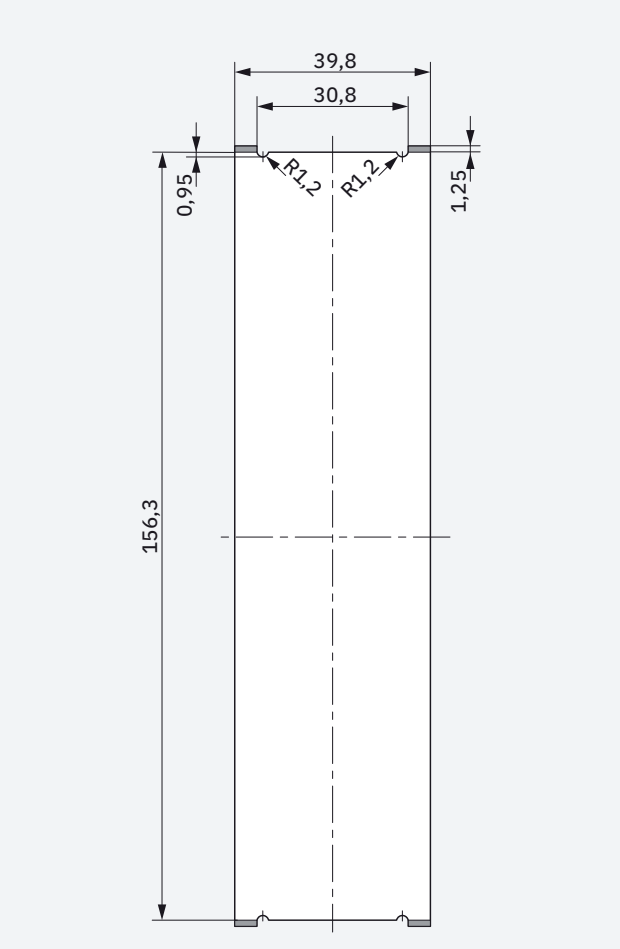


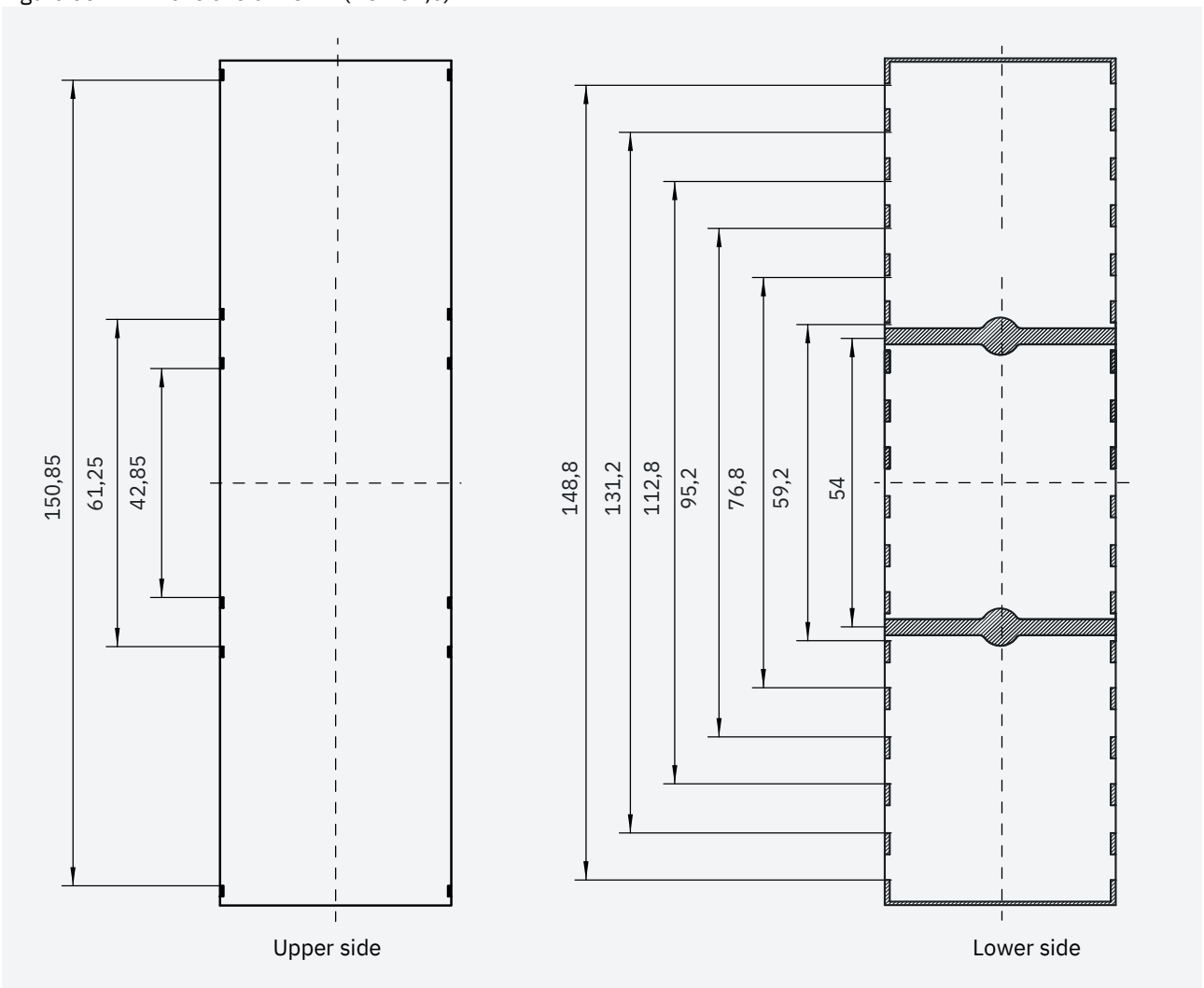
Figure 52 Dimensions of PCB 8
(example: BC 161,6 OT 010122)



9.5 Circuit board dimensions for PCB 9 – horizontal

An overview of the arrangement of the horizontal circuit boards PCB 1–9 can be found on Page 37.

Figure 53 Dimensions of PCB 9 (BC 161,6)

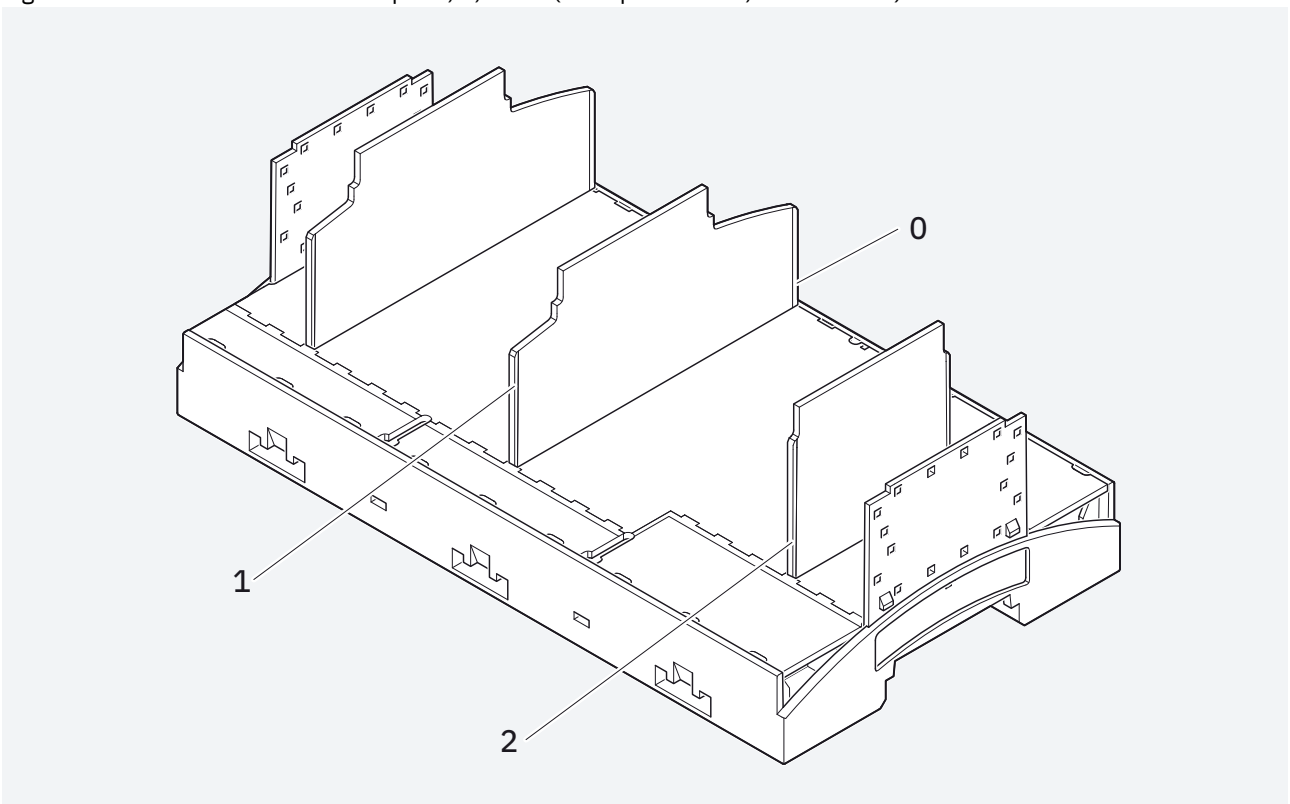


PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions

9.6 Perpendicular PCBs (BC 161,6 modular)

PCBs transverse to the DIN rail

Figure 54 Terminal installation depth 0, 1, and 2 (example: BC 161,6 OT 010122)

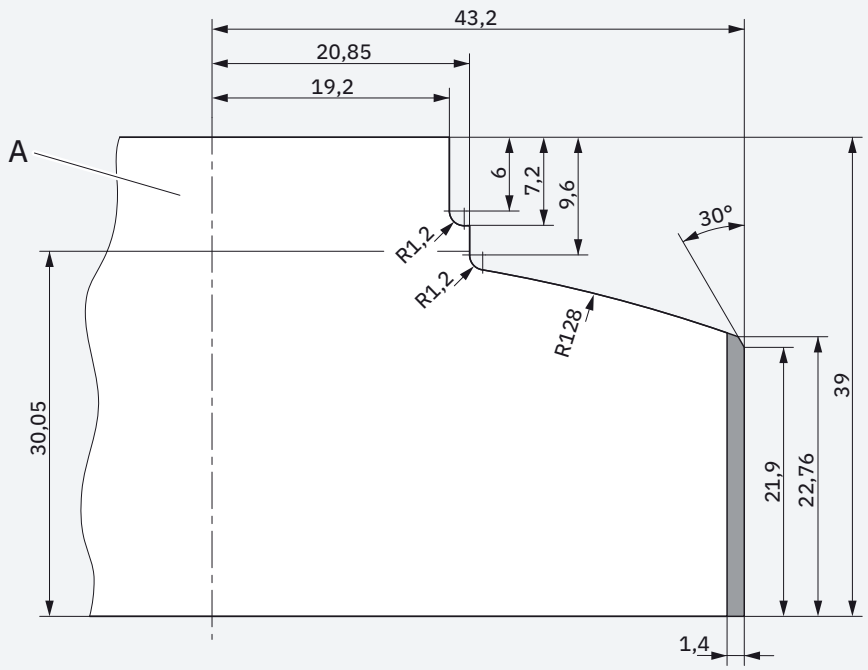


Version	Terminal installation depth
0	0 mm
1	11 mm
2	22 mm

Dimensions for perpendicular PCBs transverse to the DIN rail

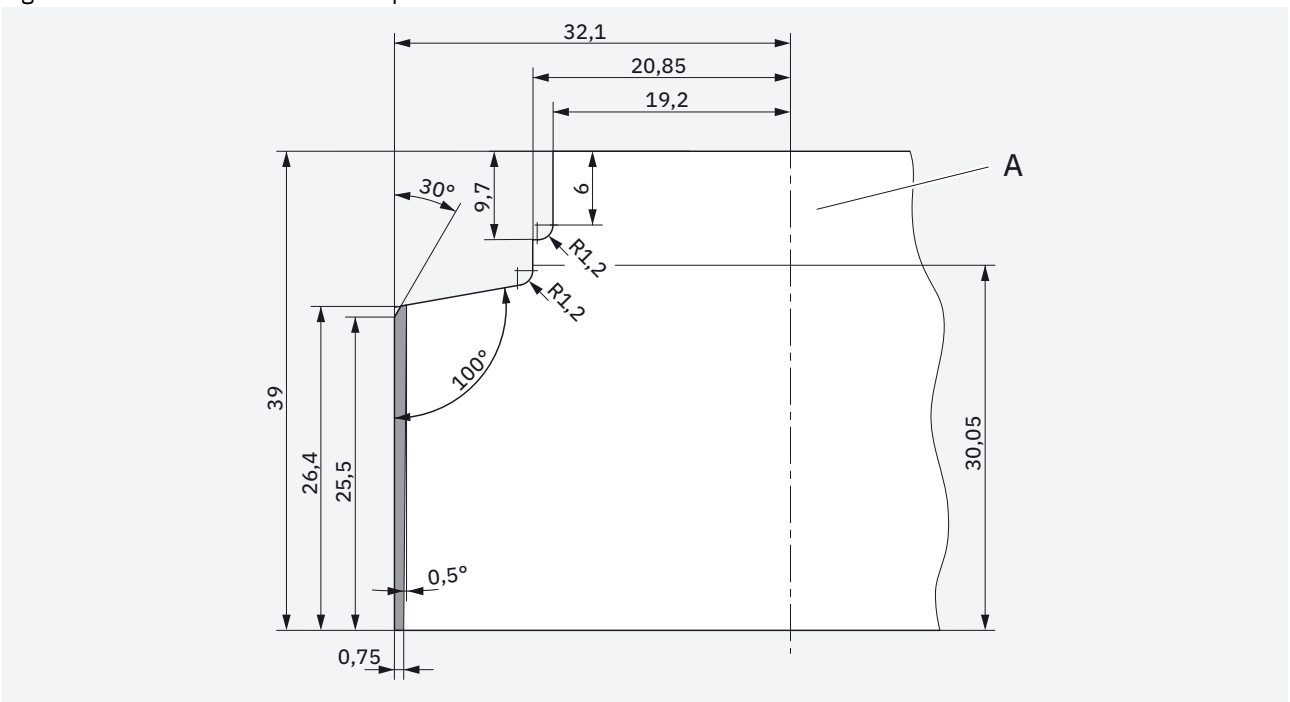
An overview of the arrangement of the perpendicular circuit boards that are arranged transverse to the DIN rail can be found on Page 46.

Figure 55 Terminal installation depth 0 mm



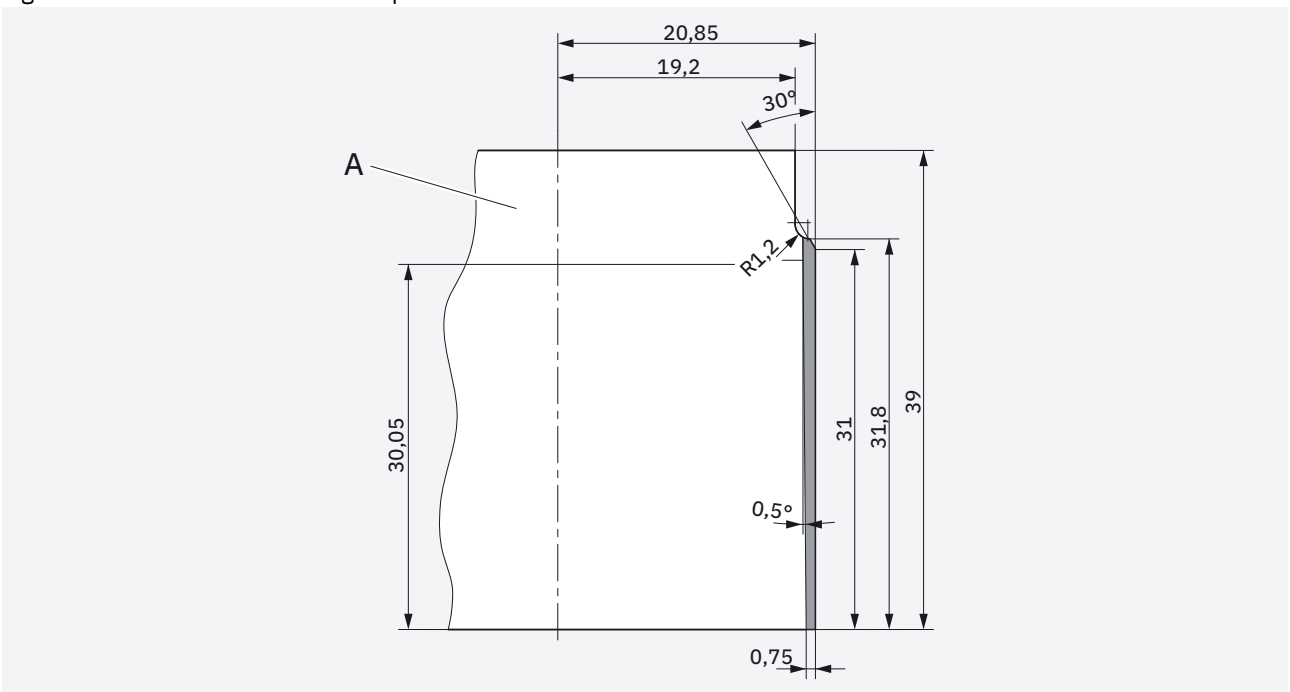
PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions
A	PCB surface, when no insertion plate is used

Figure 56 Terminal installation depth 11 mm



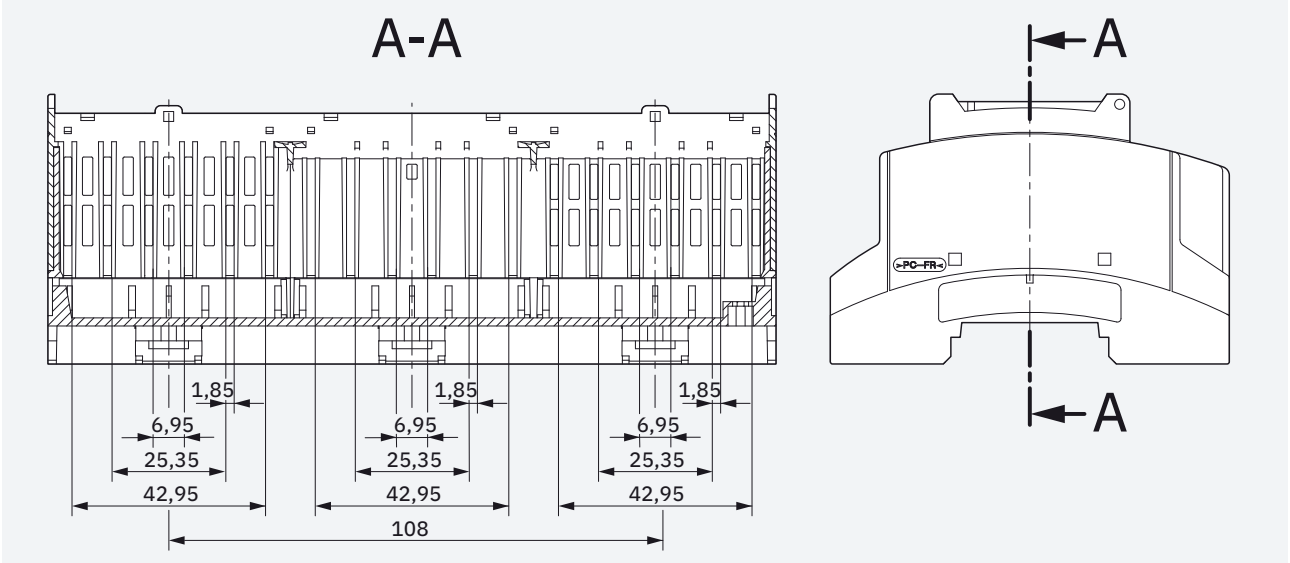
PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions
A	PCB surface, when no insertion plate is used

Figure 57 Terminal installation depth 22 mm



PCB thickness	1.8 mm, maximum
	Keep-out area, no components at these positions
A	PCB surface, when no insertion plate is used

Figure 58 Cross-sectional view of perpendicular PCBs, transverse to the DIN rail

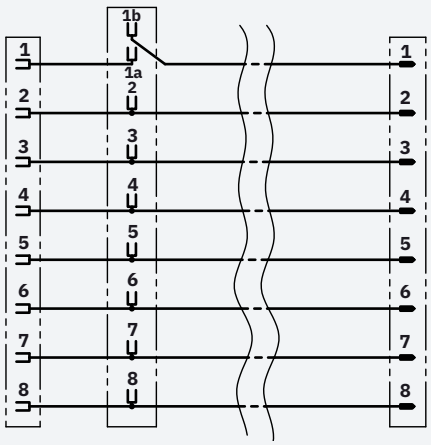


10 DIN rail connector

10.1 HBUS8 (8-pos.) with 1 slot (2–9HP)

Circuit diagram of DIN rail connectors

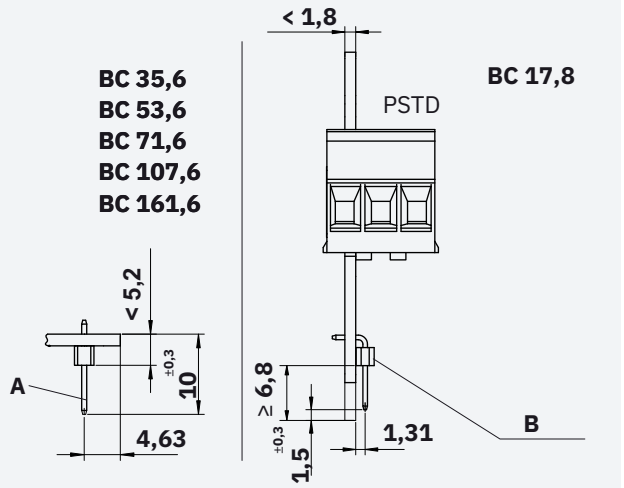
Figure 59 Circuit diagram HBUS8...-8P-1S BK



Current carrying capacity for each contact
3 A, maximum total current 25 A

Dimensional drawing of connector for DIN rail connector HBUS8

Figure 60 Connector on perpendicular PCB for contacting in the DIN rail connector



A PSTD 0,65X0,65/9-1-2,54, 1252180
B PSTD 0,65X0,65/9-1-H-2,54, 1252179
Pin strip, 1 x 9-pos., maximum
□ 0.63 mm x 0.63 mm or ø 0.7 mm ... 0.8 mm
2.54 mm pitch
Gold-plated surface

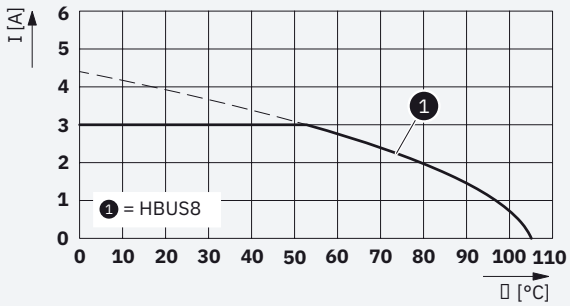
Safety notes

Do not connect or disconnect the DIN rail connector under load.

Protect unused terminal points with a cover cap set (HBUS8-B SET BK, 1252176).

Derating

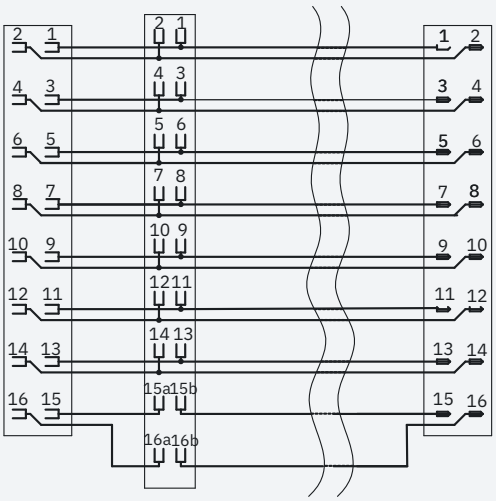
Figure 61 Derating



10.2 HBUS (16-pos.) with 1 slot (2–9HP)

Circuit diagram of DIN rail connectors

Figure 62 Circuit diagram HBUS...-16P-1S BK



Contacts

Contact 1 ... 4	Power
Contact 5 ... 16	Signal

Air clearances and creepage distances

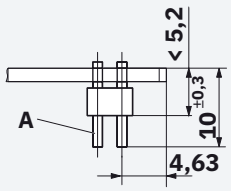
... to the DIN rail	At least 0.23 mm
... between one another	At least 0.13 mm
... between power and signal	At least 0.8 mm

Current carrying capacity for each contact

3 A, maximum total current 25 A

Dimensional drawing of connector for DIN rail connector HBUS, 16-pos., with 1 slot

Figure 63 Connector on perpendicular PCB for contacting in the DIN rail connector



A PSTD 0,65X0,65/9-2,54, 2200700
Pin strip, 2 x 9-pos., maximum
□ 0.63 mm x 0.63 mm or ø 0.7 mm – 0.8 mm
2.54 mm pitch
Gold-plated surface

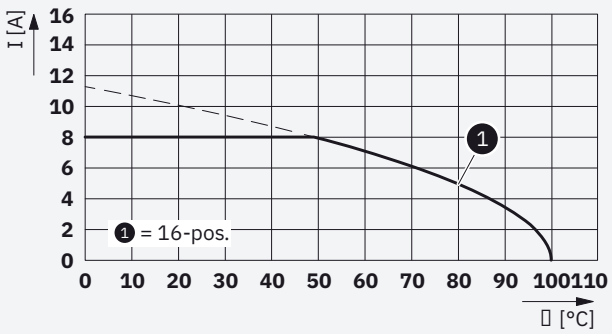
Safety notes

Do not connect or disconnect the DIN rail connector under load.

Protect unused terminal points with a cover cap set (HBUS-B SET BK, 2278173).

Derating

Figure 64 Derating



10.3 HBUS (16-pos.) with 2 and 3 slots (1HP)

Figure 65 Circuit diagram HBUS 35,6-16P-2S BK

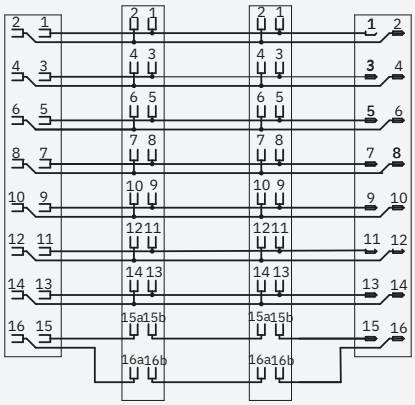
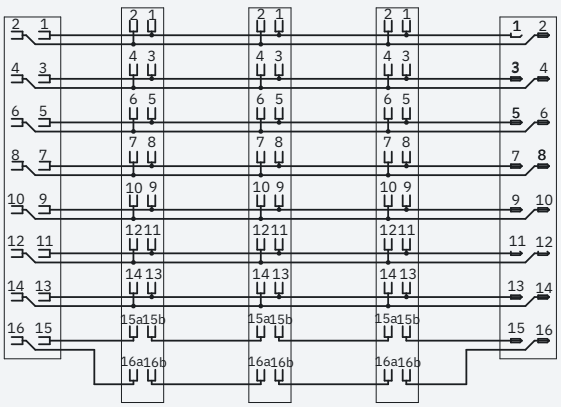


Figure 66 Circuit diagram HBUS 53,6-16P-3S BK



Contacts

Contact 1 ... 4	Power
Contact 5 ... 16	Signal

Air clearances and creepage distances

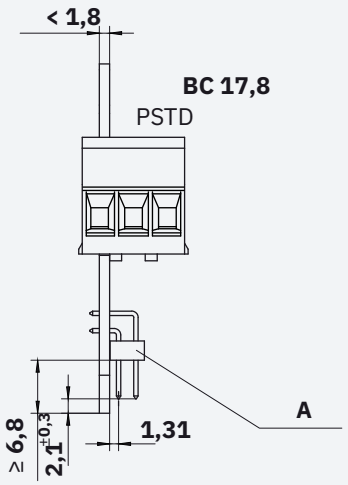
... to the DIN rail	At least 0.23 mm
... between one another	At least 0.13 mm
... between power and signal	At least 0.8 mm

Current carrying capacity for each contact

3 A, maximum total current 25 A

Dimensional drawing of connector for DIN rail connector HBUS, 16-pos., with 2 and 3 slots

Figure 67 Connector on perpendicular PCB for contacting in the DIN rail connector



A PSTD 0,65X0,65/9-H-2,54, 2200701
Pin strip, 2 x 9-pos., maximum
□ 0.63 mm x 0.63 mm or ø 0.7 mm – 0.8 mm
2.54 mm pitch
Gold-plated surface

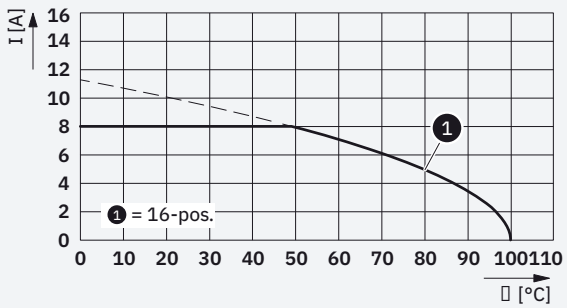
Safety notes

Do not connect or disconnect the DIN rail connector under load.

Protect unused terminal points with a cover cap set (HBUS-B SET BK, 2278173).

Derating HBUS, 16-pos.

Figure 68 Derating

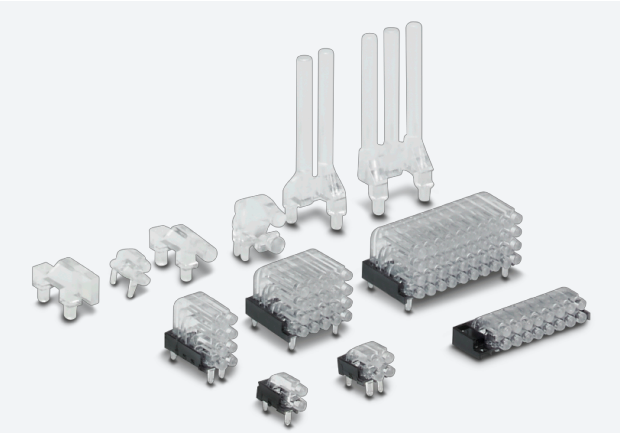


11 Accessories and customization

11.1 Accessories

HS-LC light guides

Figure 69 HS-LC... type light guides



Light guides for visualization are available in a variety of designs. The HS-LC... type light guides are fixed to the PCB.

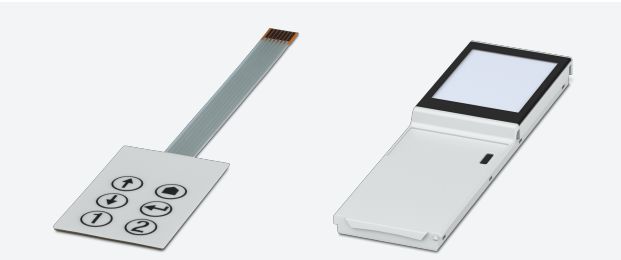
The complete list of accessories can be found at phoenixcontact.com, web code: #1638.

Touch displays and membrane keypad

Figure 70 Housing cover with touch display (BC ... DKL R2,4 TCG...)

For BC series housings, housing covers with a 2.4" touch display are available from overall width 4HP (71.6 mm).

Figure 71 Membrane keypad (KP BC...) for BC...DKL R D2,4 KPG KMGY



An additional membrane keypad is possible for overall widths 6HP and 9HP (107.6 mm and 161.6 mm).

The BC... DKL R D2,4 KPG KMGY housing covers are already prepared for the integration of one of these two membrane keypads:

– Membrane keypad with 6 keys: KP BC K6 C2 P7, 1337344
– Membrane keypad with 4 keys: KP BC K4 C2 P5, 1337341

11.2 Housing customization

Customer-specific solutions are available in addition to the standard range.

– **Color versions**
– **Markings** using different printing technologies
  – Pad printing: ideal for single-color or two-color printing
  – Screen printing: for multi-color markings on larger surfaces
  – Laser marking: particularly suitable for content that changes on a regular basis, e.g., serial numbers
– **Mechanical processing** of the housing parts.

Further information can be found via web code #0685.