

## **Electronic housing BC** for distributor boards

The requirements of modern building automation grow constantly and change with regard to comfort, control, intelligent linking of systems and their communication options permanently.

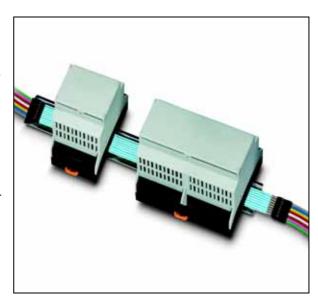
The BC... electronic housings were designed for futureoriented applications in building automation.

Besides the modern design, this housing family offers numerous other features.

The housing complies with DIN 43880, thus guaranteeing problem-free operation in all common distributor boards.

By using the HBUS 16-pos. DIN rail bus connector, connectivity from device to device is established. The cross connector allows power supply, parallel feed-through as well as serial processing of signals through the PCB.

Plugging in and unplugging of individual devices is possible without breaking up the bussed signals.



#### **COMBICON Select**

The COMBICON search engine with CAD downloading



COMBICON Select – The printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

- Systematic and fast selection of products
- Seamless Internet-aided engineering with comprehensive CAD download
- Easy-to-use e-shopping functions.

select.phoenixcontact.com/combicon

#### **Housing features**



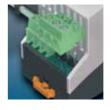
#### Built-in connectivity from device to device

The 16-position DIN rail bus connector provides for both parallel and serial data transmission and power supply.

#### Free choice of the matching PCB technology

The BC...U11 housing types with a small terminal space are ideal for COMBICON compact building automation connection systems.

If classical connection systems or data plug connectors are to be used, the BC...U22 housing variants with a large terminal space are available.









#### Different cover versions for an ideal device design

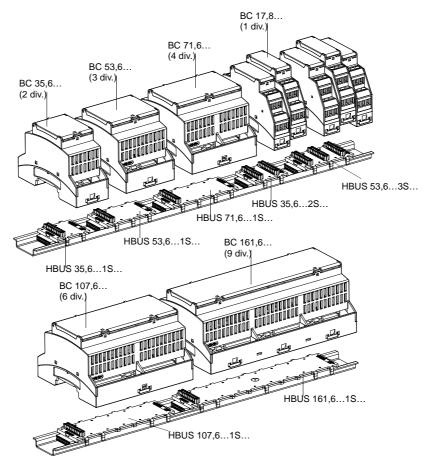
A captive snap-in cover in the same color as the housing or a transparent hinged cover that can be sealed – the perfect finish for all applications.

## Flexible device design Inner PCB guides in all three directions support functional and convenient installation of the electronic system.









PHOENIX CONTACT page 2 of 16

## Electronic housing BC for distributor boards BC 17,8 ... (1 div.)



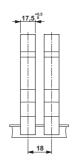
Description	Туре
Housing lower part	BC 17,8 UT HBUS BK
Housing upper part, for PCB terminal block connection	BC 17,8 OT-MKDSO KMG
Housing cover, with the housing upper part with captive locking, in housing color	BC 17,8 DKL R KMGY
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 17,8 DKL S TRANS
DIN rail bus connector, 16-pos., two 18-pos. slots to the PCB	HBUS 35,6-16P-2S BK
DIN rail bus connector, 16-pos., three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST
Cover caps for empty terminal space	ME B-17,5 MKDSO KMGY
PCB terminal block, for soldering into the PCB Left Right	MKDSO 2,5/3-L KMGY MKDSO 2,5/3-R KMGY
Technical data	
Insulation material	
Inflammability class in acc. with UL 94	
Color, housing lower part	
Color, housing upper part	·

		-
Туре	Order No.	Pcs./Pkt.
BC 17,8 UT HBUS BK	2896241	10
BC 17,8 OT-MKDSO KMGY	2896092	10
BC 17,8 DKL R KMGY	2896144	10
BC 17,8 DKL S TRANS	2896102	10
HBUS 35,6-16P-2S BK	2896319	10
HBUS 53,6-16P-3S BK	2896322	10
BL2-2,54/16-ST	2896335	50
SL2-2,54/16-ST	2896348	50
ME B-17,5 MKDSO KMGY	2854115	50
MKDSO 2,5/3-L KMGY	2854102	50
MKDSO 2,5/3-R KMGY	2854092	50
Polycarb	onate	
V0		
Blac		
Light o		
	j·∽j	

#### Housing dimensional drawing

# 71.8

#### Dimensions for the pitch unit



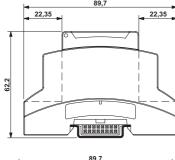
Pitch unit (div.) = 18 mm, in acc. with DIN 43880 Dimensions and tolerances in acc. with DIN 43880

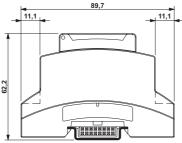
## Electronic housing BC for distributor boards BC 35,6 ... (2 div.)

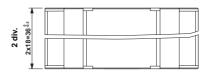


Description	Туре	Order No.	Pcs./Pkt.
Housing lower part	BC 35,6 UT HBUS BK	2896254	10
Housing upper part, with vents, terminal installation depth 11.1 mm	BC 35,6 OT U11 KMGY	2896034	10
Housing upper part, with vents, terminal installation depth 22.35 mm	BC 35,6 OT U22 KMGY	2896047	10
Housing cover, with the housing upper part with captive locking, in housing color	BC 35,6 DKL R KMGY	2896157	10
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 35,6 DKL S TRANS	2896115	10
DIN rail bus connector, 16-pos., one 18-pos. slot to the PCB	HBUS 35,6-16P-1S BK	2896283	10
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST	2896335	50
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 11.1 mm	BC 17,6 BS U11 KMGY	2896186	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 22.35 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 11.1 mm	BC 35,6 BS U11 KMGY	2896209	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 22.35 mm	BC 35,6 BS U22 KMGY	2896212	50
Technical data		•	
Insulation material		arbonate	·
Inflammability class in acc. with UL 94		V0	
Color, housing lower part	-	Black	
Color, housing upper part	LigI	ht gray	

#### Housing dimensional drawing







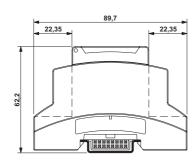
Dimensions and tolerances in acc. with DIN 43880

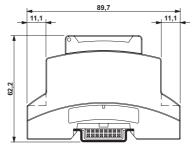
## Electronic housing BC for distributor boards BC 53,6 ... (3 div.)

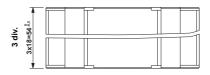


Description	Туре	Order No.	Pcs./Pkt.
Housing lower part	BC 53,6 UT HBUS BK	2896403	10
Housing upper part, with vents, terminal installation depth 11.1 mm	BC 53,6 OT U11 KMGY	2896416	10
Housing upper part, with vents, terminal installation depth 22.35 mm	BC 53,6 OT U22 KMGY	2896429	10
Housing cover, with the housing upper part with captive locking, in housing color	BC 53,6 DKL R KMGY	2896432	10
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 53,6 DKL S TRANS	2896445	10
DIN rail bus connector, 16-pos., one 18-pos. slot to the PCB	HBUS 53,6-16P-1S BK	2896458	10
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST	2896335	50
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 11.1 mm	BC 17,6 BS U11 KMGY	2896186	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 22.35 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 11.1 mm	BC 35,6 BS U11 KMGY	2896209	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 22.35 mm	BC 35,6 BS U22 KMGY	2896212	50
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 11.1 mm	BC 53,6 BS U11 KMGY	2896225	50
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 22.35 mm	BC 53,6 BS U22 KMGY	2896238	50
Technical data		•	
Insulation material		rbonate	
Inflammability class in acc. with UL 94	<u></u>	/0	
Color, housing lower part		ack	
Color, housing upper part	Ligh	t gray	

#### Housing dimensional drawing







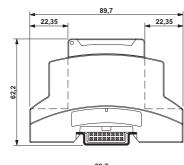
Dimensions and tolerances in acc. with DIN 43880

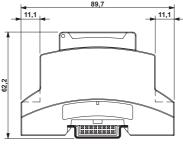
## Electronic housing BC for distributor boards BC 71,6 ... (4 div.)

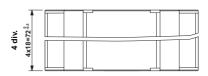


Description	Туре	Order No.	Pcs./Pkt.
Housing lower part	BC 71,6 UT HBUS BK	2896267	10
Housing upper part, with vents, terminal installation depth 11.1 mm	BC 71,6 OT U11 KMGY	2896050	10
Housing upper part, with vents, terminal installation depth 22.35 mm	BC 71,6 OT U22 KMGY	2896063	10
Housing cover, with the housing upper part with captive locking, in housing color	BC 71,6 DKL R KMGY	2896160	10
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 71,6 DKL S TRANS	2896128	10
DIN rail bus connector, 16-pos., one 18-pos. slot to the PCB	HBUS 71,6-16P-1S BK	2896296	10
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST	2896335	50
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 11.1 mm	BC 17,6 BS U11 KMGY	2896186	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 22.35 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 11.1 mm	BC 35,6 BS U11 KMGY	2896209	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 22.35 mm	BC 35,6 BS U22 KMGY	2896212	50
Technical data		•	
Insulation material		arbonate	
Inflammability class in acc. with UL 94		V0	
Color, housing lower part Color, housing upper part		lack nt gray	
Coloi, flouding upper part	Ligi	it gray	

#### Housing dimensional drawing







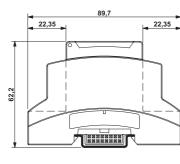
Dimensions and tolerances in acc. with DIN 43880

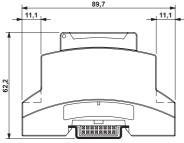
## Electronic housing BC for distributor boards BC 107,6 ... (6 div.)

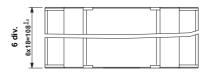


Description	Туре	Order No.	Pcs./Pkt.
Housing lower part	BC 107,6 UT HBUS BK	2896270	10
Housing upper part, with vents, terminal installation depth 11.1 mm	BC 107,6 OT U11 KMGY	2896076	10
Housing upper part, with vents, terminal installation depth 22.35 mm	BC 107,6 OT U22 KMGY	2896089	10
Housing cover, with the housing upper part with captive locking, in housing color	BC 107,6 DKL R KMGY	2896173	10
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 107,6 DKL S TRANS	2896131	10
DIN rail bus connector, 16-pos., one 18-pos. slot to the PCB	HBUS 107,6-16P-1S BK	2896306	10
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST	2896335	50
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 11.1 mm	BC 17,6 BS U11 KMGY	2896186	50
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 22.35 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 11.1 mm	BC 35,6 BS U11 KMGY	2896209	50
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 22.35 mm	BC 35,6 BS U22 KMGY	2896212	50
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 11.1 mm	BC 53,6 BS U11 KMGY	2896225	50
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 22.35 mm	BC 53,6 BS U22 KMGY	2896238	50
Technical data		•	
Insulation material		arbonate	
Inflammability class in acc. with UL 94		V0	
Color, housing lower part		lack	
Color, housing upper part	Ligr	nt gray	

#### Housing dimensional drawing







Dimensions and tolerances in acc. with DIN 43880

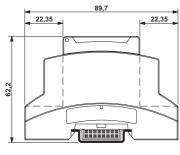
## Electronic housing BC for distributor boards BC 161,6 ... (9 div.)

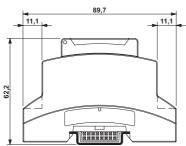


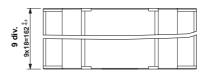
Description	Туре
Housing lower part	BC 161,6 UT HBUS B
Housing upper part, with vents, terminal installation depth 11.1 mm	BC 161,6 OT U11 KM
Housing upper part, with vents, terminal installation depth 22.35 mm	BC 161,6 OT U22 KM
Housing cover, with the housing upper part with captive locking, in housing color	BC 161,6 DKL R KMC
Housing cover, hinged, can be sealed, transparent, incl. fitted cover	BC 161,6 DKL S TRA
DIN rail bus connector, 16-pos., one 18-pos. slot to the PCB	HBUS 161,6-16P-1S I
Power connector for DIN rail bus connector, socket strip	BL2-2,54/16-ST
Power connector for DIN rail bus connector, pin strip	SL2-2,54/16-ST
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 11.1 mm	BC 17,6 BS U11 KMG
Cover caps for empty terminal space, width 17.6 mm, for terminal installation depth 22.35 mm	BC 17,6 BS U22 KMG
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 11.1 mm	BC 35,6 BS U11 KMG
Cover caps for empty terminal space, width 35.6 mm, for terminal installation depth 22.35 mm	BC 35,6 BS U22 KMG
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 11.1 mm	BC 53,6 BS U11 KMG
Cover caps for empty terminal space, width 53.6 mm, for terminal installation depth 22.35 mm	BC 53,6 BS U22 KMG
Technical data	
Insulation material	
Inflammability class in acc. with UL 94	
Color, housing lower part	
Color, housing upper part	<u> </u>

Туре	Order No.	Pcs./Pkt.
BC 161,6 UT HBUS BK	2278500	10
BC 161,6 OT U11 KMGY	2278513	10
BC 161,6 OT U22 KMGY	2278526	10
BC 161,6 DKL R KMGY	2278539	10
BC 161,6 DKL S TRANS	2278542	10
HBUS 161,6-16P-1S BK	2278555	10
BL2-2,54/16-ST	2896335	50
SL2-2,54/16-ST	2896348	50
BC 17,6 BS U11 KMGY	2896186	50
BC 17,6 BS U22 KMGY	2896199	50
BC 35,6 BS U11 KMGY	2896209	50
BC 35,6 BS U22 KMGY	2896212	50
BC 53,6 BS U11 KMGY	2896225	50
BC 53,6 BS U22 KMGY	2896238	50
Polycart		
V(	,	

Light gray

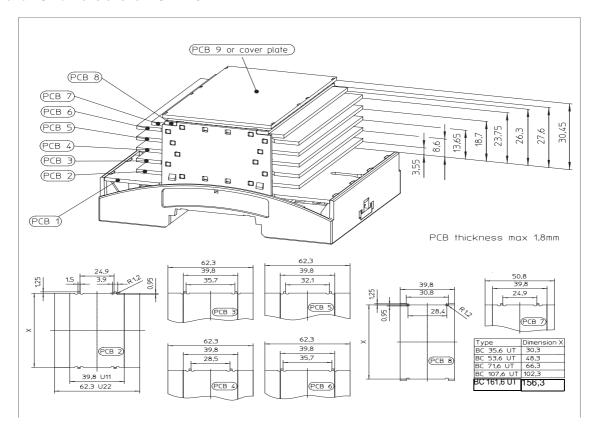






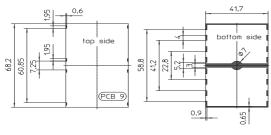
Dimensions and tolerances in acc. with DIN 43880

### Overview of the PCB plugging possibilities (horizontal PCBs) and PCB dimensions for PCB 2 - 8 $\,$

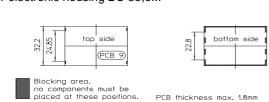


#### PCB dimensions for PCB 9

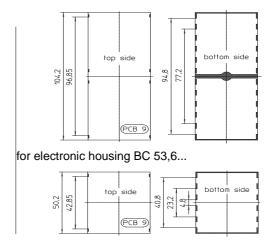
for electronic housing BC 71,6...



for electronic housing BC 35,6...

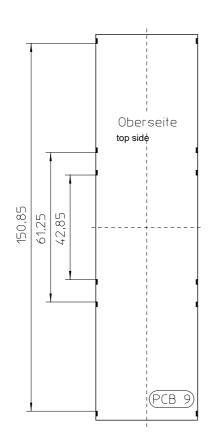


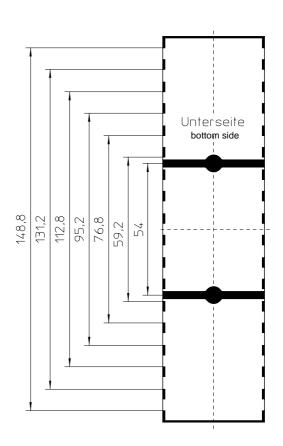
for electronic housing BC 107,6...



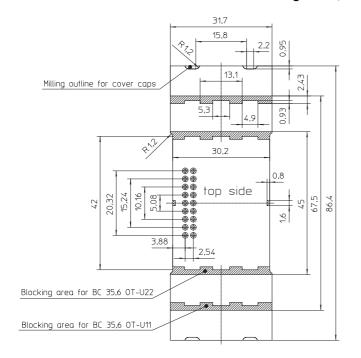
#### PCB dimensions for PCB 9

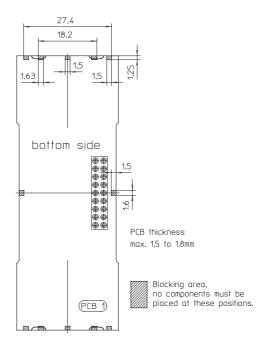
for electronic housing BC 161,6



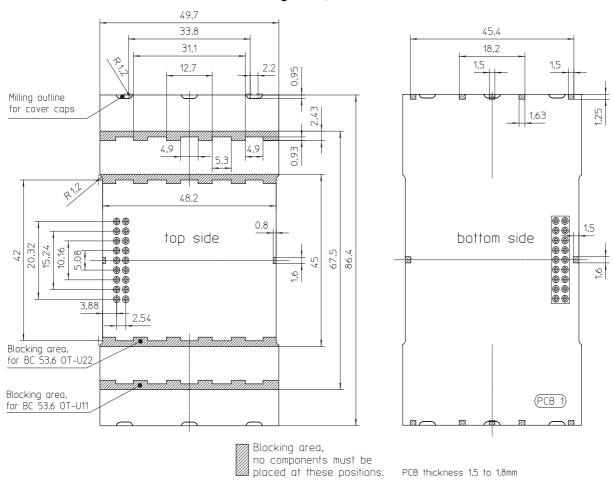


#### PCB dimensions for PCB 1 for electronic housing BC 35,6...

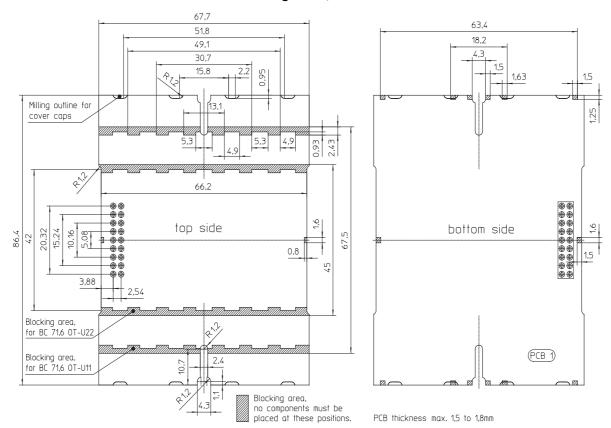




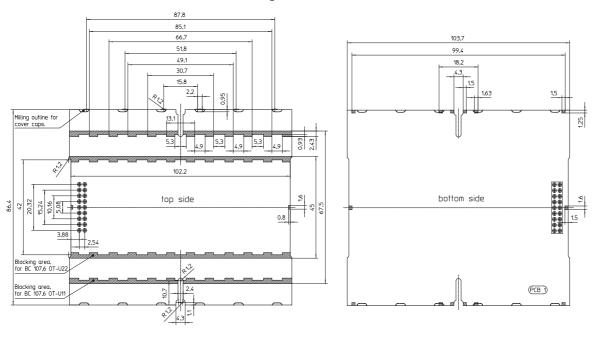
#### PCB dimensions for PCB 1 for electronic housing BC 53,6...



#### PCB dimensions for PCB 1 for electronic housing BC 71,6...

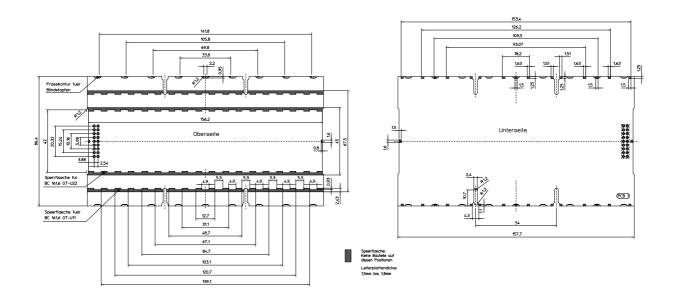


#### PCB dimensions for PCB 1 for electronic housing BC 107,6...

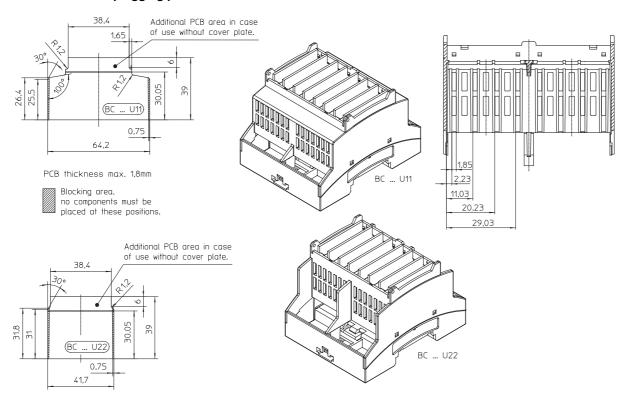


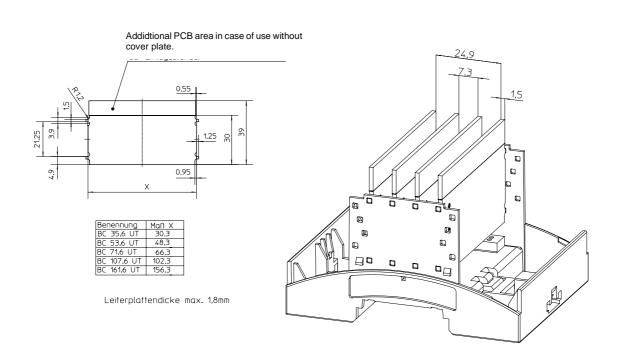
PCB thickness 1,5 to 1,8mm

#### PCB dimensions for PCB 1 for electronic housing BC 161,6...

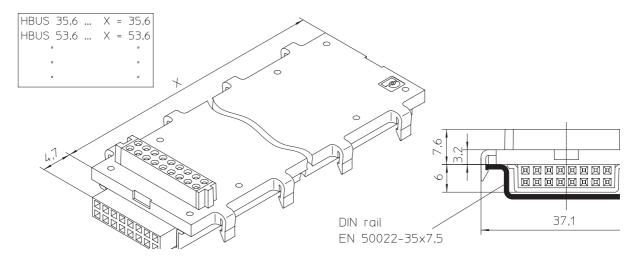


#### Overview of PCB plugging possibilities and PCB dimensions for vertical PCBs

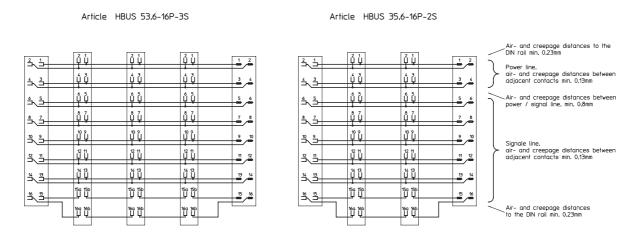




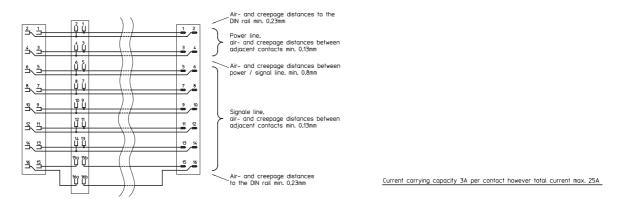
#### Dimensional diagram of DIN rail bus connectors HBUS



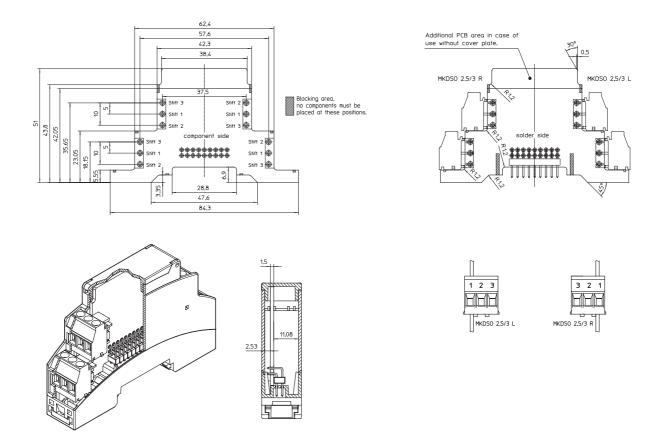
#### Circuit diagram of DIN rail bus connectors HBUS



Article: HBUS 35,6-16P-1S HBUS 53,6-16P-1S HBUS 71,6-16P-1S HBUS 107,6-16P-1S



#### PCB arrangement and dimensional diagram for electronic housing BC 17,8



Dimensional diagram of plug connector on horizontal PCB (PCB 1 in BC 35,6 to BC 107,6) for contacting in the DIN rail bus connector HBUS

Stiftleiste, max. 2x9 polig

0,63x0,63 oder Ø0,7-0,8

Raster 2,54

Oberflaeche vergoldet.

Header max. 2x9 poles

plo,63x0,63 oder Ø 0,7-0,8

pitch 2,54

surface gold plated

Dimensional diagram of plug connector on vertical PCB (in BC 17,8) for contacting in the DIN rail bus connector HBUS

