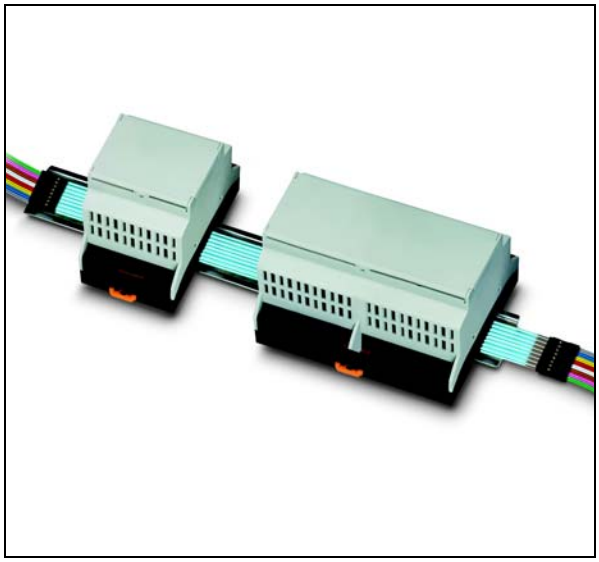
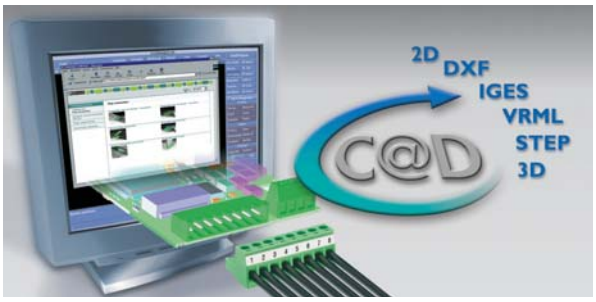
Electronic housing BC for distributor boards

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 future-oriented 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

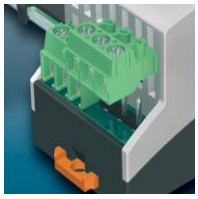
PHOENIX CONTACT GmbH & Co. KG • 32823 Blomberg, Germany
Phone +49 52 35 3-00 • Fax +49 52 35 3-4 12 00 • www.phoenixcontact.com
Local contact: www.phoenixcontact.com/salesnetwork

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 designs 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 are available.



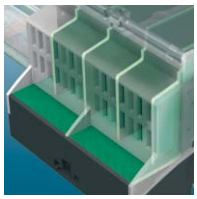


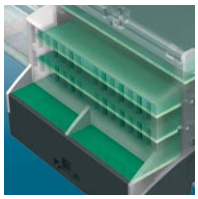


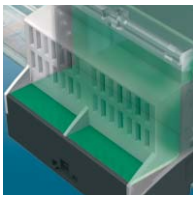


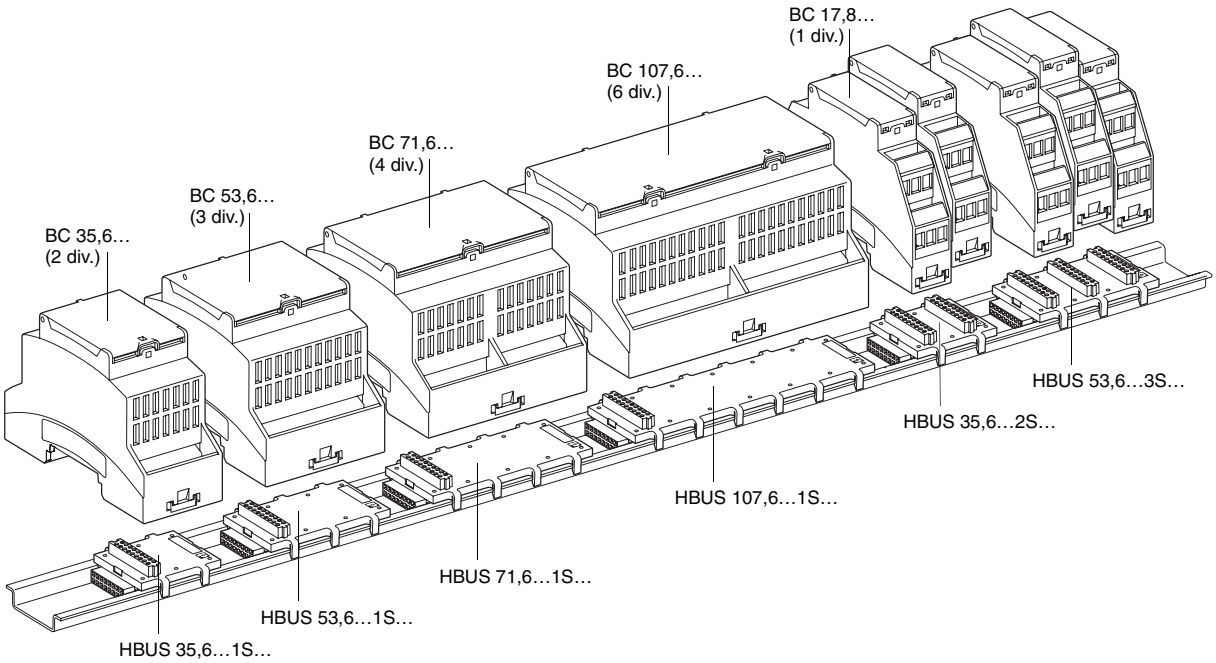
Different cover versions for an ideal device design
A captive snap-in cover in the same color as the housing or a transparent hinged cover that can be sealed – the perfect finish for all applications.

Flexible device design
Internal PCB retainers on all axes allow the electronics to be installed in a functional and convenient manner.









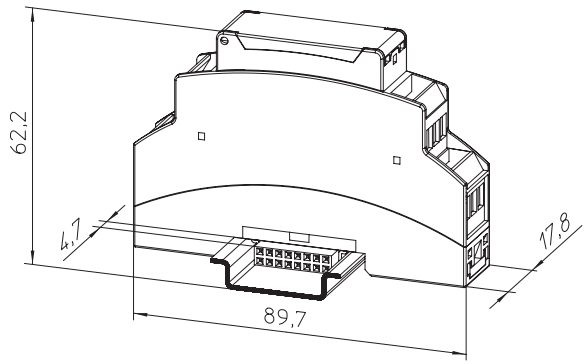
Electronic housing BC for distributor boards BC 17,8 ... (1 div.)



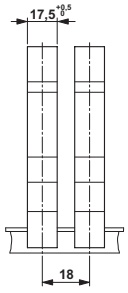
Available from 4th quarter 2006

Description		Type	Order No.	Pcs./Pkt.
Housing lower part		**BC 17,8 UT HBUS BK**	**2896241**	10
Housing upper part, for PCP terminal block connection		**BC 17,8 OT-MKDSO KMGY**	**2896092**	10
Housing cover, with the housing upper part with captive locking, in housing color		**BC 17,8 DKL R KMGY**	**2896144**	10
Housing cover, hinged, can be sealed, transparent, incl. fitted cover		**BC 17,8 DKL S TRANS**	**2896102**	10
DIN rail bus connector, 16-pos., two 18-pos. slots to the PCB		**HBUS 35,6-16P-2S BK**	**2896319**	10
DIN rail bus connector, 16-pos., three 18-pos. slots to the PCB		**HBUS 53,6-16P-3S BK**	**2896322**	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		**ME B-17,5 MKDSO KMGY**	**2854115**	50
PCB terminal block, for soldering into the PCB	Left	**MKDSO 2,5/3-L KMGY**	**2854102**	50
	Right	**MKDSO 2,5/3-R KMGY**	**2854092**	50
Technical data				
Insulation material		Polycarbonate		
Inflammability class in acc. with UL 94		V0		
Color, housing lower part		Black		
Color, housing upper part		Light gray		

Housing dimensional drawing



Dimensions for the pitch unit



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

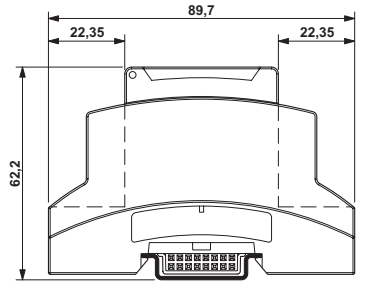
Electronic housing BC for distributor boards BC 35,6 ... (2 div.)

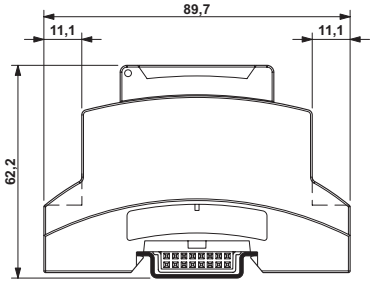


Description	Type	Order No.	Pcs./Pkt.
Housing lower part	**BC 35,6 UT HBUS BK**	**2896254**	10
Housing upper part, with vents, terminal installation depth 11.1 mm	**BC 35,6 OT U11 KMGY**	**2896034**	10
Housing upper part, with vents, terminal installation depth 22.35 mm	**BC 35,6 OT U22 KMGY**	**2896047**	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., an 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

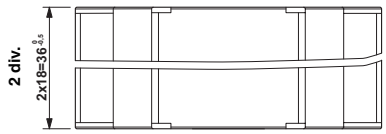
Technical data	
Insulation material	Polycarbonate
Inflammability class in acc. with UL 94	V0
Color, housing lower part	Black
Color, housing upper part	Light gray

Housing dimensional drawing





Housing top view



Dimensions and tolerances in acc. with DIN 43880

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

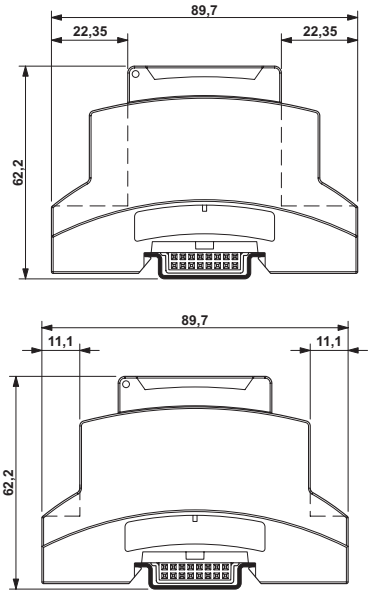


Available from 4th quarter 2006

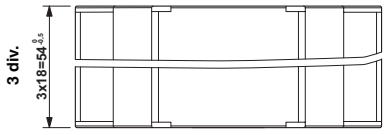
Description	Type	Order No.	Pcs./Pkt.
Housing lower part	**BC 53,6 UT HBUS BK**	**2896403**	10
Housing upper part, with vents, terminal installation depth 11.1 mm	**BC 53,6 OT U11 KMGY**	**2896416**	10
Housing upper part, with vents, terminal installation depth 22.35 mm	**BC 53,6 OT U22 KMGY**	**2896429**	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., an 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	Polycarbonate
Inflammability class in acc. with UL 94	V0
Color, housing lower part	Black
Color, housing upper part	Light gray

Housing dimensional drawing



Housing top view



Dimensions and tolerances in acc. with DIN 43880

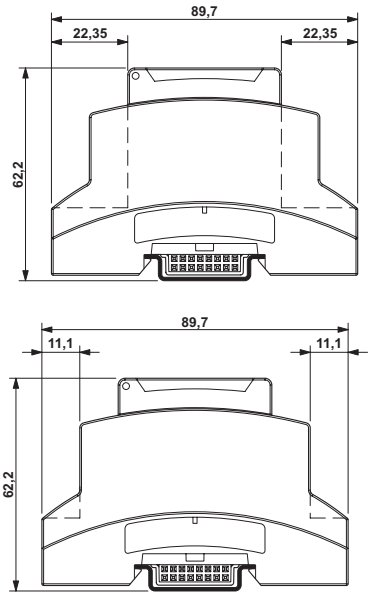
Electronic housing BC for distributor boards BC 71,6 ... (4 div.)



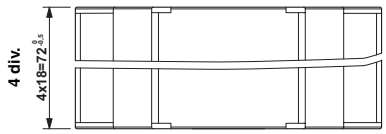
Description	Type	Order No.	Pcs./Pkt.
Housing lower part	**BC 71,6 UT HBUS BK**	**2896267**	10
Housing upper part, with vents, terminal installation depth 11.1 mm	**BC 71,6 OT U11 KMGY**	**2896050**	10
Housing upper part, with vents, terminal installation depth 22.35 mm	**BC 71,6 OT U22 KMGY**	**2896063**	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., an 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	Polycarbonate
Inflammability class in acc. with UL 94	V0
Color, housing lower part	Black
Color, housing upper part	Light gray

Housing dimensional drawing



Housing top view



Dimensions and tolerances in acc. with DIN 43880

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

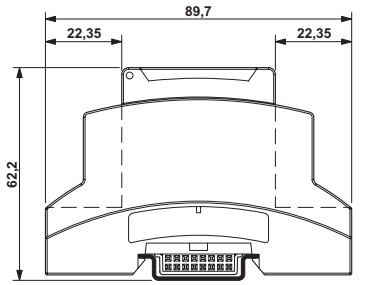


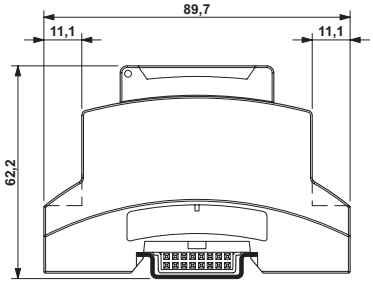
Available from 4th quarter 2006

Description	Type	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., an 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

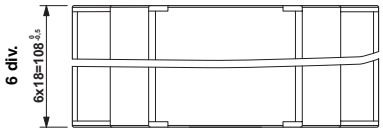
Technical data	
Insulation material	Polycarbonate
Inflammability class in acc. with UL 94	V0
Color, housing lower part	Black
Color, housing upper part	Light gray

Housing dimensional drawing



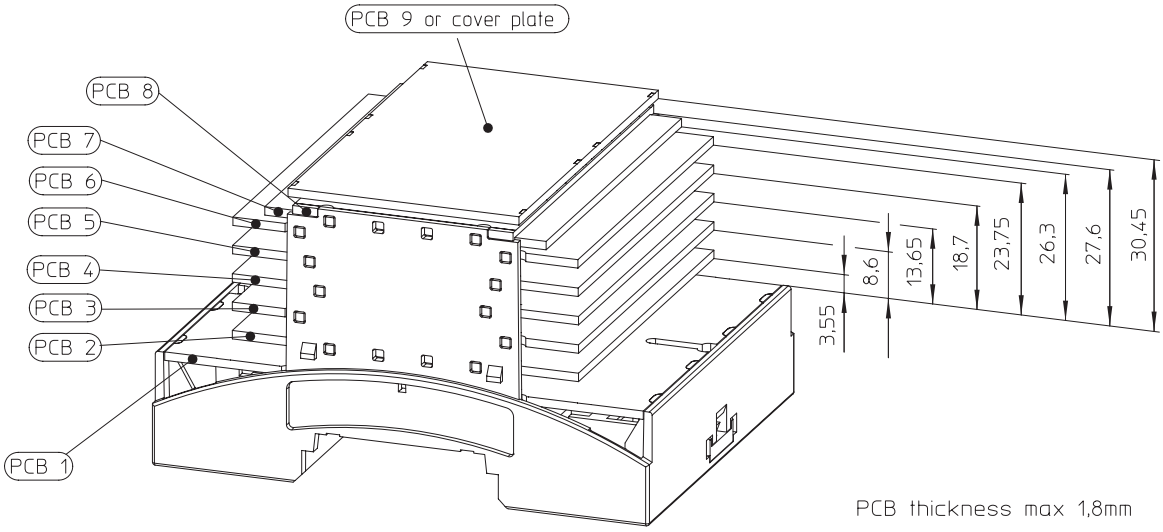


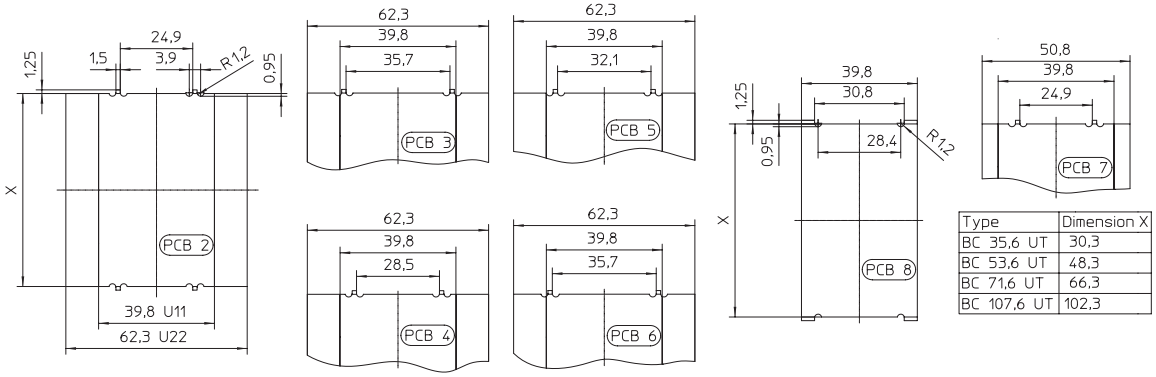
Housing top view



Dimensions and tolerances in acc. with DIN 43880

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

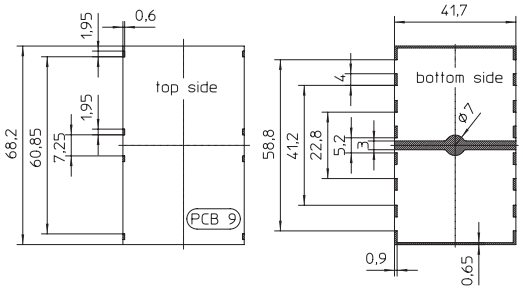




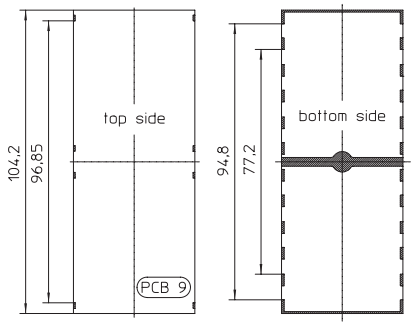
Type	Dimension X
BC 35,6 UT	30,3
BC 53,6 UT	48,3
BC 71,6 UT	66,3
BC 107,6 UT	102,3

PCB dimensions for PCB 9

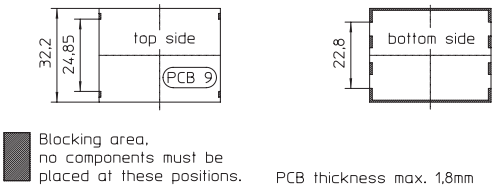
for electronic housing BC 71,6...



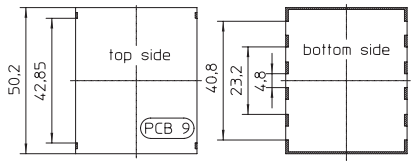
for electronic housing BC 107,6...



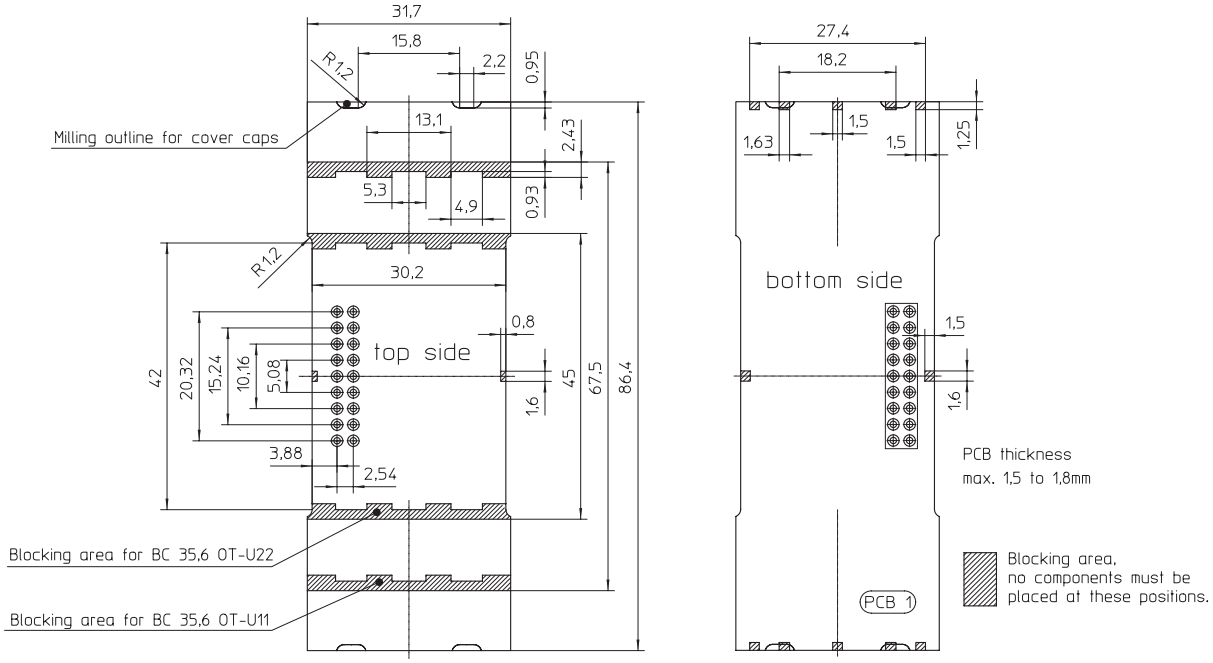
for electronic housing BC 35,6...



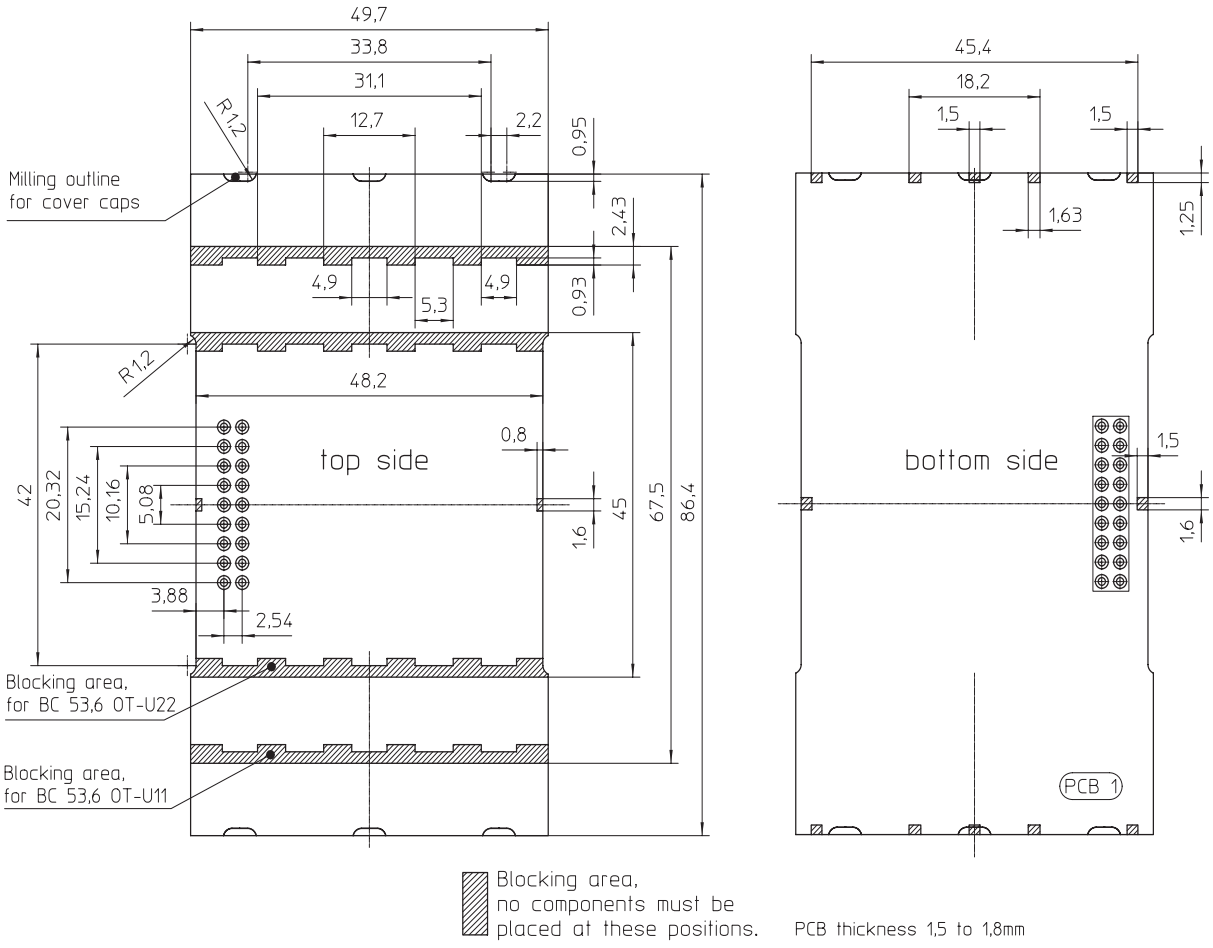
for electronic housing BC 53,6...



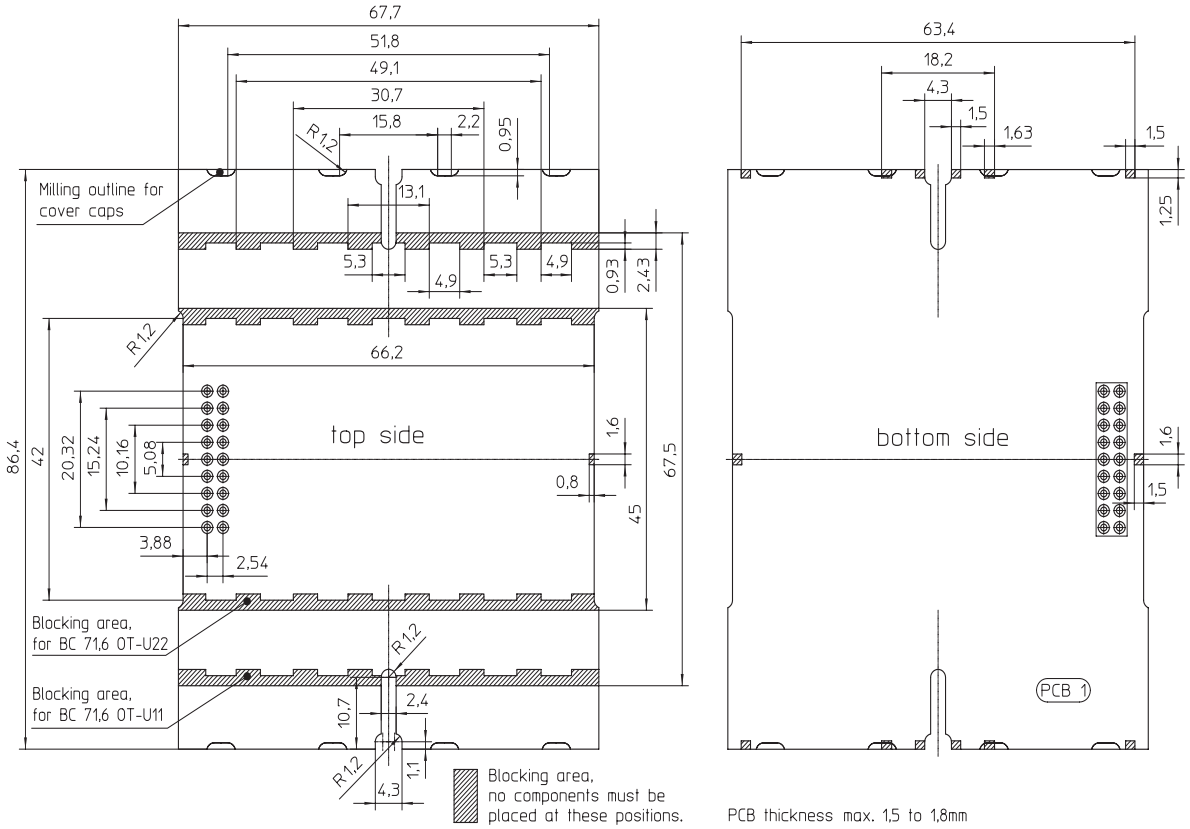
PCB dimensions for PCB 1 for electronic housing BC 35,6...



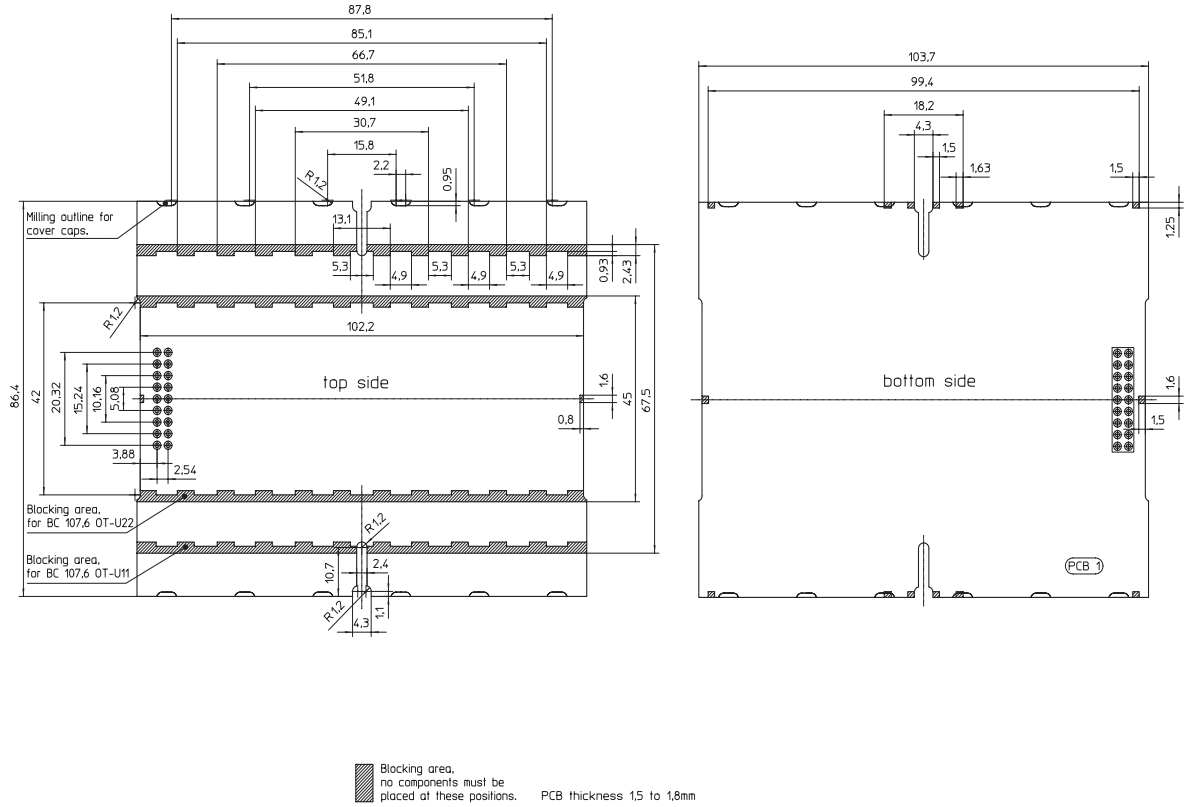
PCB dimensions for PCB 1 for electronic housing BC 53,6...



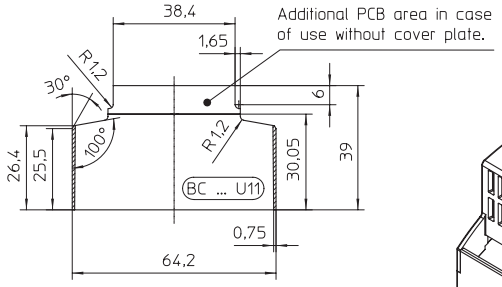
PCB dimensions for PCB 1 for electronic housing BC 71,6...



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

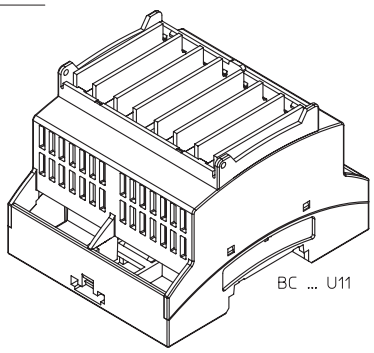


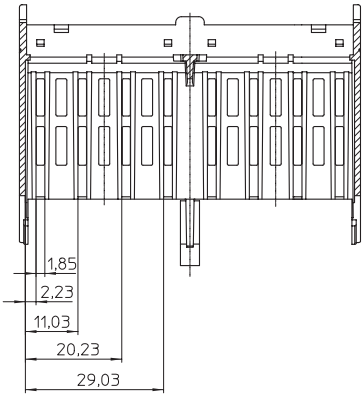
Overview of PCB plugging possibilities and PCB dimensions for vertical PCBs

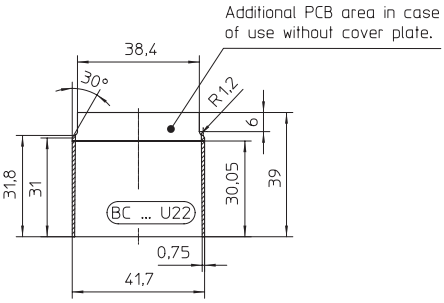


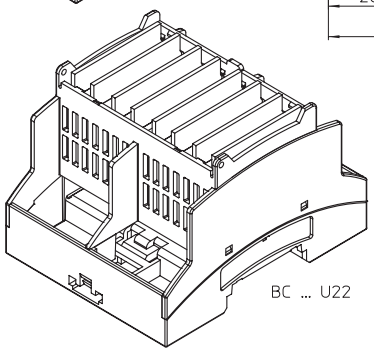
PCB thickness max. 1,8mm

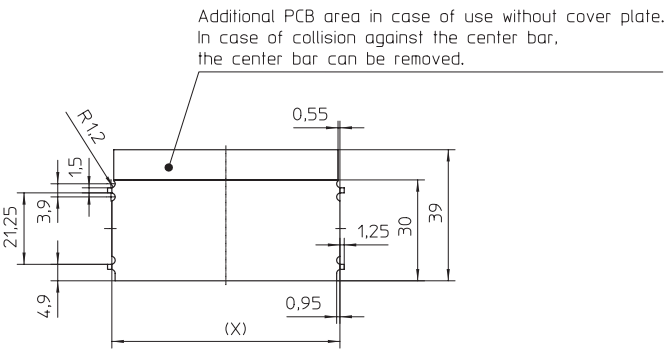
Blocking area,
no components must be
placed at these positions.





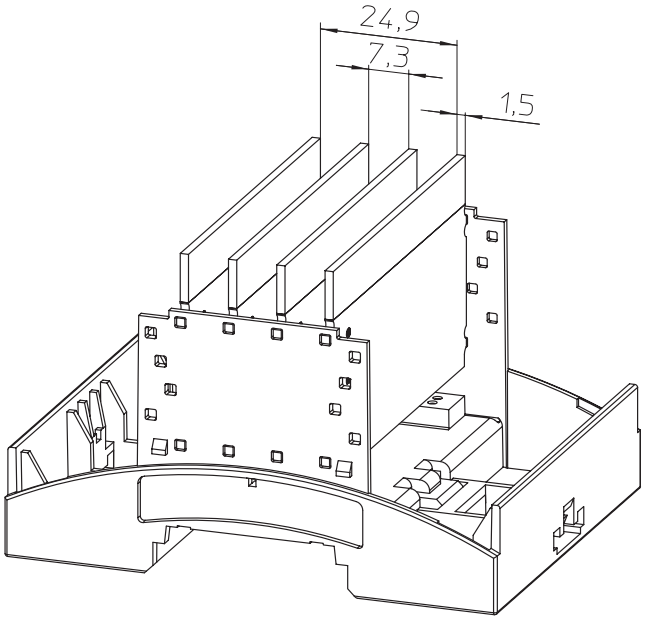




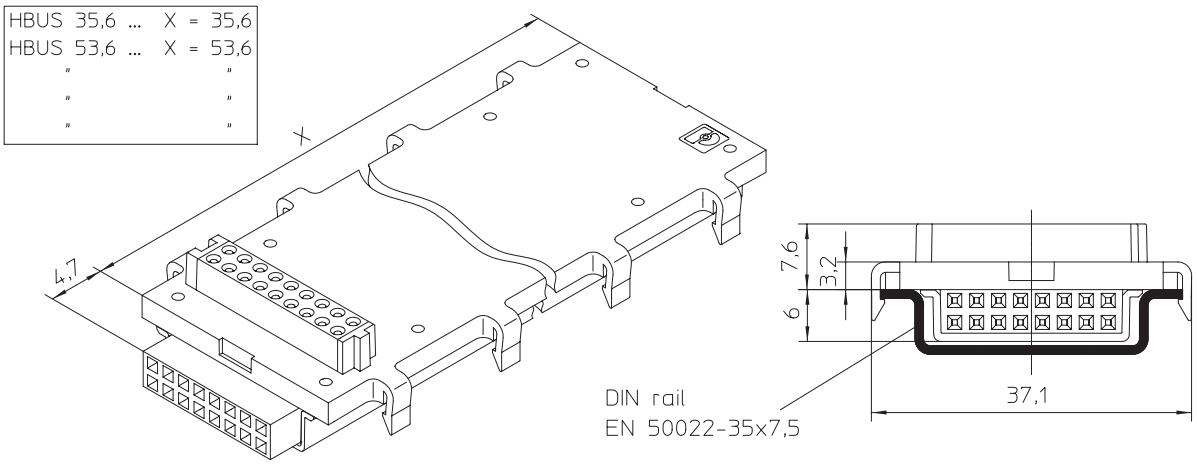


Type	Dimension X
BC 35,6 UT	30,3
BC 53,6 UT	48,3
BC 71,6 UT	66,3
BC 107,6 UT	102,3

PCB thickness max. 1,8mm

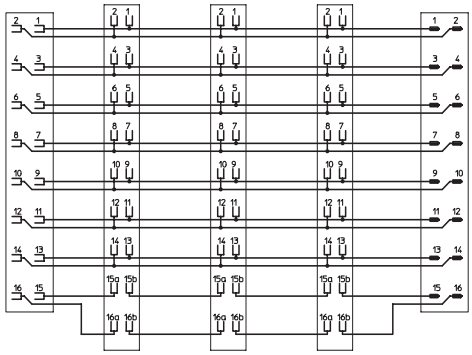


Dimensional diagram of DIN rail bus connectors HBUS

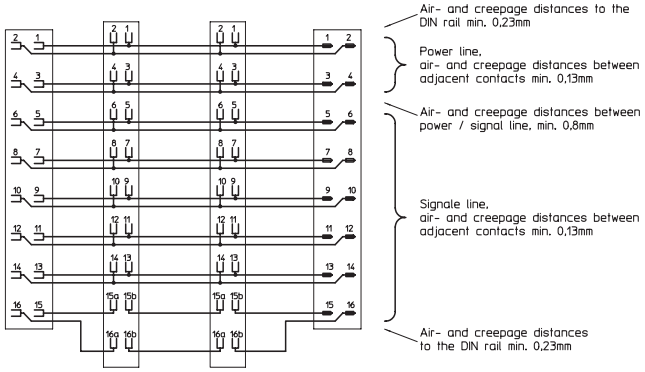


Circuit diagram of DIN rail bus connectors HBUS

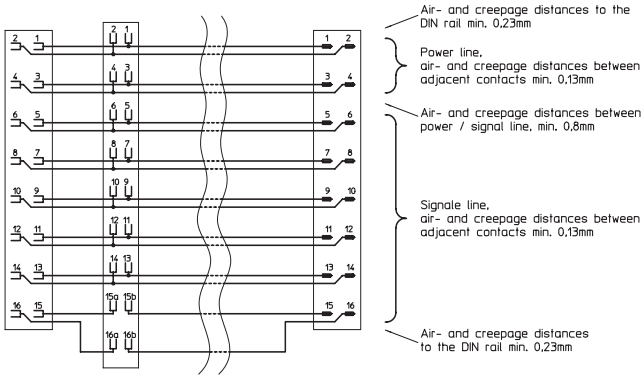
Article HBUS 53,6-16P-3S



Article HBUS 35,6-16P-2S

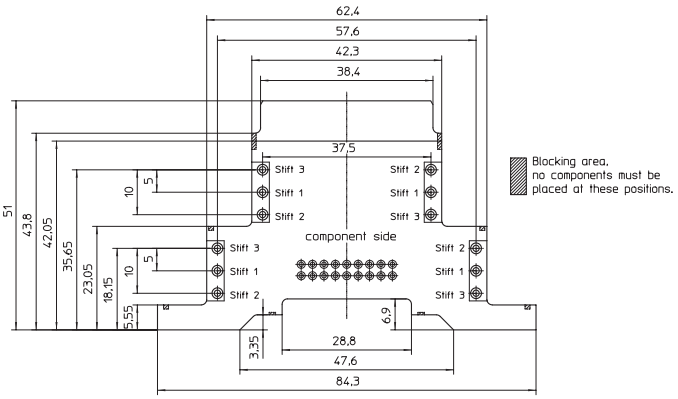


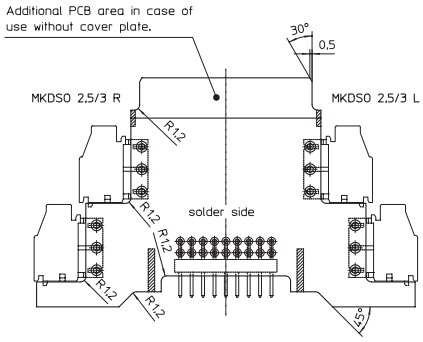
Article: HBUS 35,6-16P-1S HBUS 53,6-16P-1S HBUS 71,6-16P-1S HBUS 107,6-16P-1S

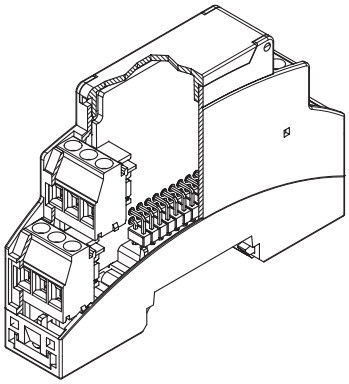


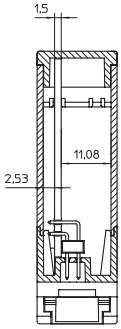
Current carrying capacity 3A per contact however total current max. 25A

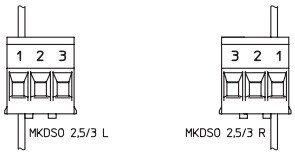
PCB arrangement and dimensional diagram for electronic housing BC 17,8



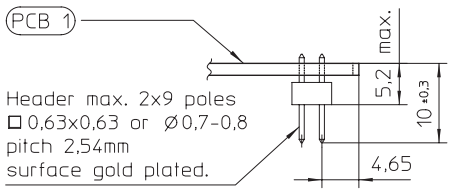




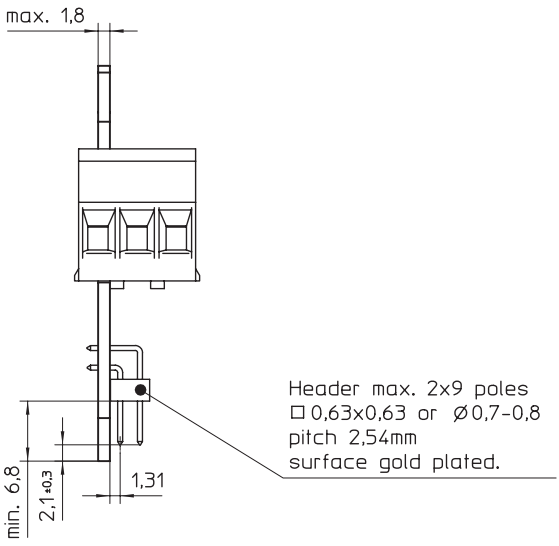




Dimensional diagram of plug connector on horizontal PCB (PCB 1 in BC 35,6 to BC 107,6) for contacting in the DIN rail bus connector HBUS



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



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