

# ME PLC 40...

## Multifunctional housing for complex electronics



### Data sheet

105504\_en\_01

© PHOENIX CONTACT 2013-04-08

## 1 Description

The housings of the ME PLC 40... product group consist of a 40-mm wide housing base with much space for the PCB assembly.

The housing base can be combined with various covers. There are connection technology carriers on which the PCB plug-in connectors (FKCN 2.5...) are already premounted. These plug-in connectors have a push-in connection for conductor cross sections up to 2.5 mm<sup>2</sup>.

In addition, a connection technology carrier with RJ45-plug-in connectors and a universal cover are available. The universal cover is especially suited for installing connection systems or display and operating elements. We would be glad to install the required openings for you.

The housings can be snapped onto an NS 105/20 DIN rail.

They can be combined with a DIN rail connector. The bus connectors supplied unmounted and can be equipped with PCBs as needed.

Bus connectors are available with the number of positions 50/40 and 10/10, i.e. 50-pos. in the DIN rail / 40-pos. into the device or otherwise 10-pos. in the DIN rail / 10-pos. into the device.

If you do not need a bus connector, you can also fasten the housing onto two NS 35 DIN rails.



The 3D housing data can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).



Make sure you always use the latest documentation.  
It can be downloaded at [phoenixcontact.net/products](http://phoenixcontact.net/products).



This data sheet is valid for all products listed on the following page:

**Table of contents**

1	Description.....	1
2	Ordering data.....	3
3	Overview of the ME PLC Products.....	4
4	Lower part of the housing.....	5
4.1	Outer dimensions of the housing base .....	5
4.2	Inner dimensions of the housing base .....	5
5	Connection technology carrier.....	6
5.1	Connection of the conductors to the PCB plug-in connector (push-in connection) .....	6
5.2	Place the connection technology carrier on the housing base.....	6
5.3	Connection technology carrier CT10 .....	7
5.4	Connection technology carrier CT20 .....	9
5.5	Connection technology carrier CT36 .....	11
5.6	Connection technology carrier RJ45 .....	13
5.7	Universal cover CL .....	14
6	Bus connector set.....	15
6.1	Bus connector 50/40 .....	15
6.2	Bus connector 10/10 .....	21
7	Array and fitted plate .....	27
7.1	Dimensional drawing array .....	27
7.2	Dimensional drawing fitted plate.....	27
7.3	Dimensional drawing of the PCB for mounting under array or fitted plate .....	28
7.4	Dimensional drawing housing PCB (housing with array or with fitted plate).....	28
8	Close with cover (without array or fitted plate) .....	29
8.1	Dimensional drawing housing PCB .....	29
9	Mounting on a DIN rail .....	30
9.1	Mounting on NS 105/20.....	30
9.2	Mounting on NS 35/15.....	30

## 2 Ordering data

### Housing

#### DESCRIPTION

**Housing base**, suitable for 50/40 bus connector, color: light gray

**Housing base**, suitable for 10/10 bus connector, color: light gray

**Universal cover**, long design, color: light gray

**Connection technology carrier**, fully assembled with FKCN 2 x 10-pos., cover and release lever, incl. fitted cover

Matching PCB plug-in connector: 1 x CCDN 2.5/10-G1 P26 THR (1734355)

**Connection technology carrier**, fully assembled with FKCN 2 x 18-pos., cover and release lever, incl. fitted cover

Matching PCB plug-in connector: 1 x CCDN 2.5/18-G1 P26 THR (1734436)

**Connection technology carrier**, fully assembled with FKCN 1 x 10-pos., cover and release lever, incl. fitted cover

Matching PCB plug-in connector: MSTBA 2.5/10-G (1757543)

**Connection technology carrier** for RJ45 connection, pre-assembled with cover and release lever; incl. fitted cover and 2 x RJ45 connector plugs

#### Type

ME PLC 40 B BUS 50/40 GY7035

ME PLC 40 B BUS 10/10 GY7035

ME PLC 40 CL GY7035

ME PLC 40 CT20 GY7035

ME PLC 40 CT36 GY7035

ME PLC 40 CT10 GY7035

ME PLC 40 CTRJ45 GY7035

#### Order no.

2201500

2201499

2201505

2201493

2201494

2201492

2201495

#### Pcs. / pack

10

10

10

10

10

10

10

### Accessories

#### DESCRIPTION

**Cover**, short design, color: light gray

**Cover**, short design, color: transparent

**Fitted plate**, for assembly underneath the cover in short design (ME PLC 40 CS...), color: light gray

**Matrix** with defined engagement mechanism, for assembly underneath the cover in short design (ME PLC 40 CS...), color: black

**Bus connector kit** consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamps for mounting the DIN rail, PCB not included

**Bus connector kit** consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting the DIN rail, PCB not included

End brackets for DIN rail mounting, incl. mounting screws

**DIN rail**, unperforated, 105 x 20 mm, galvanized and thick layer passivated, cut to customer-specific length (between 40 mm and 2000 mm)

Specify length in [mm] according to order key: quantity / order no. / length (e.g. for 1 x 40 mm long: 1 / 2201508 / 40)

#### Type

ME PLC 40 CS GY7035

ME PLC 40 CS TRANS

ME PLC 40 PL S GY7035

ME PLC 40 MT S BK

ME PLC 40 BUS 50/40 KIT BK

ME PLC 40 BUS 10/10 KIT BK

ME PLC EBT GY7035

NS 105/20 UNPERF

#### Order no.

2201490

2201491

2201497

2201496

2201502

2201503

2201498

2201508

#### Pcs. / pack

10

10

10

10

10

10

#### Coding set, for coding housing base and bus connector

Drop, color: red

Rectangle, color: red

Drop, color: green

Rectangle, color: green

COD PI 4 RD

COD PI 2 RD

COD PI 1 GN

COD PI 3 GN

2201618

2901877

2901864

2201617

100

100

100

100

### 3 Overview of the ME PLC Products

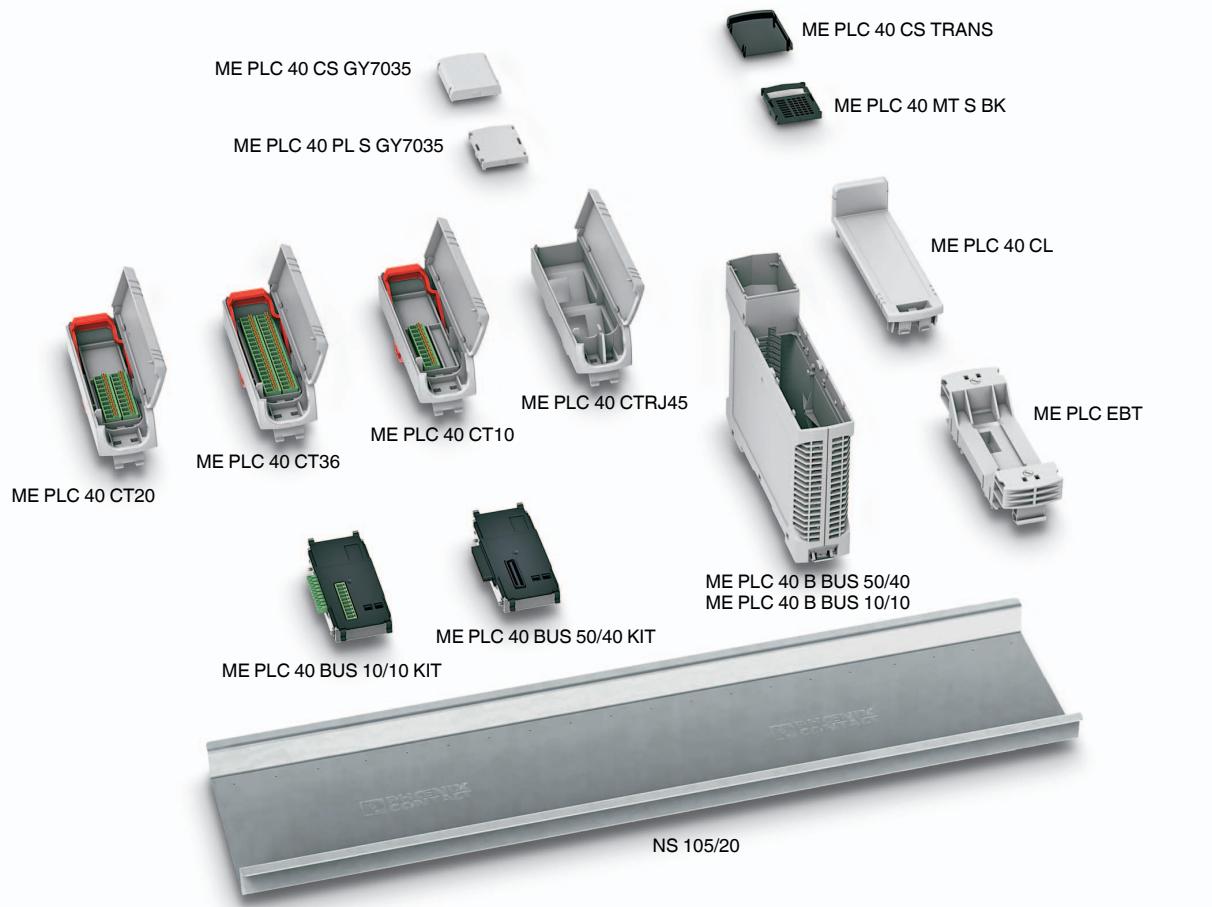


Figure 1 Overview

## 4 Lower part of the housing



Housing base, suitable for 50/40 bus connector, color: light gray ME PLC 40 B BUS 50/40 GY7035

2201500

Housing base, suitable for 10/10 bus connector, color: light gray ME PLC 40 B BUS 10/10 GY7035

2201499

### 4.1 Outer dimensions of the housing base

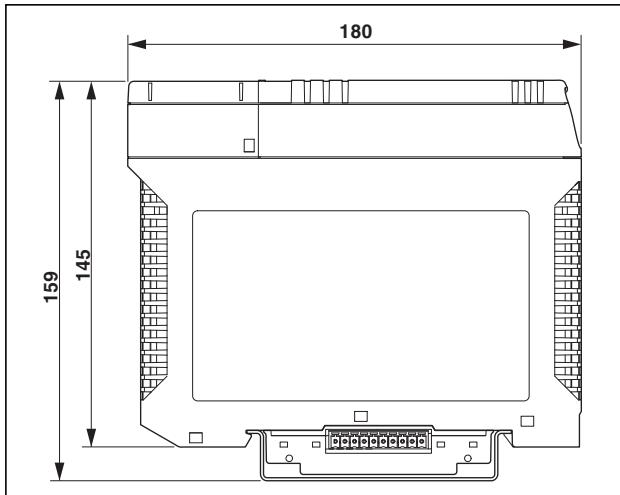


Figure 2 Housing base, side view

### 4.2 Inner dimensions of the housing base

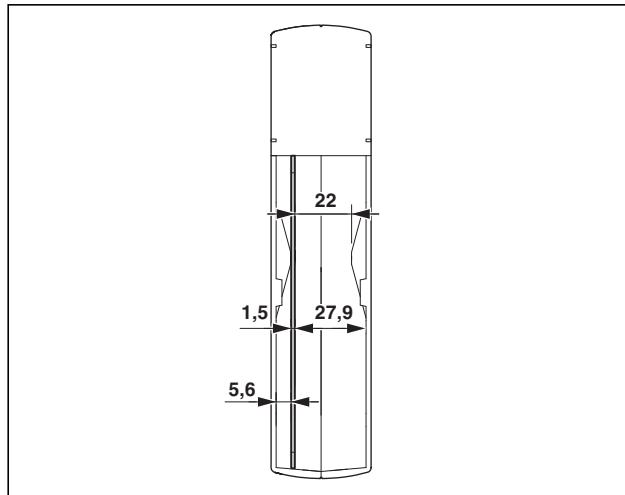


Figure 4 Housing base, internal view

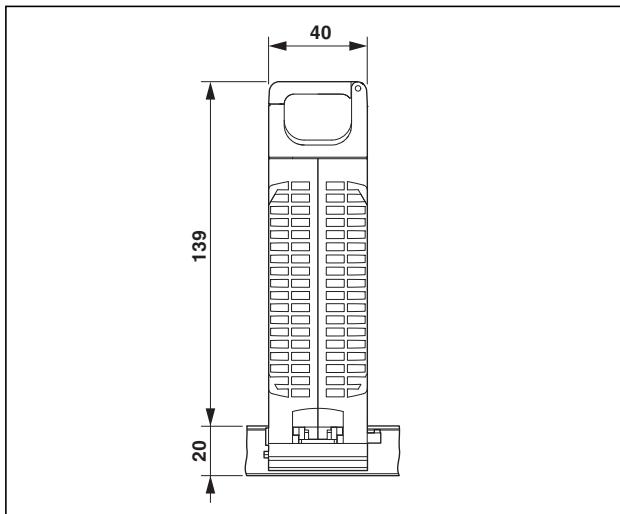


Figure 3 Housing base, front view

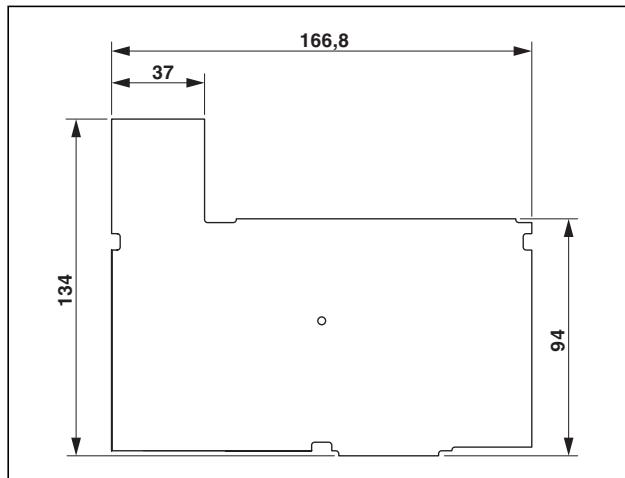


Figure 5 Maximum dimensions of the PCB of the housing



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

## 5 Connection technology carrier

### 5.1 Connection of the conductors to the PCB plug-in connector (push-in connection)

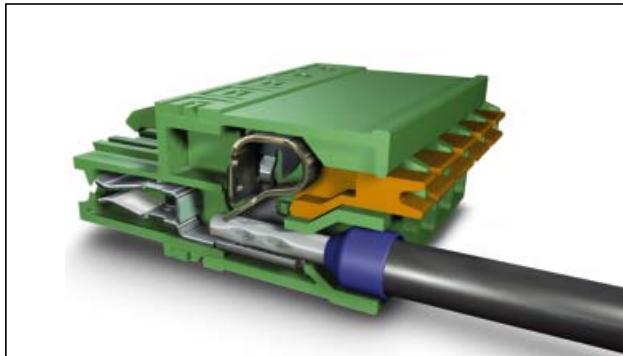


Figure 6 Push-in connection

**1.5 mm<sup>2</sup> conductor cross section ... 2.5 mm<sup>2</sup>, rigid or with ferrule**

- Insert the stripped wire into the round opening of the terminal block without using a tool.

**Wires with a smaller cross section or stranded conductors without ferrule**

- To release the spring, push in the orange pushbutton with a screwdriver.

#### Dismantling

- For release, push in the orange pushbutton with a screwdriver.

### 5.2 Place the connection technology carrier on the housing base

- Swivel the red lever to the right.
- Hook in the two engagement noses of the connection technology carrier into the openings of the housing base.

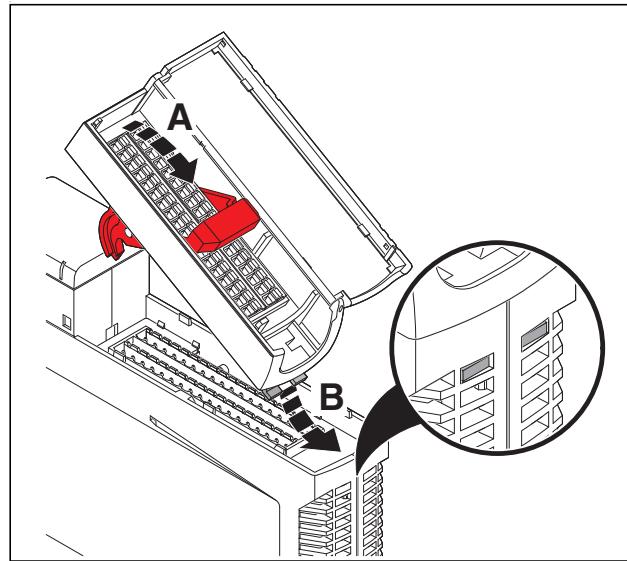


Figure 7 Snap in

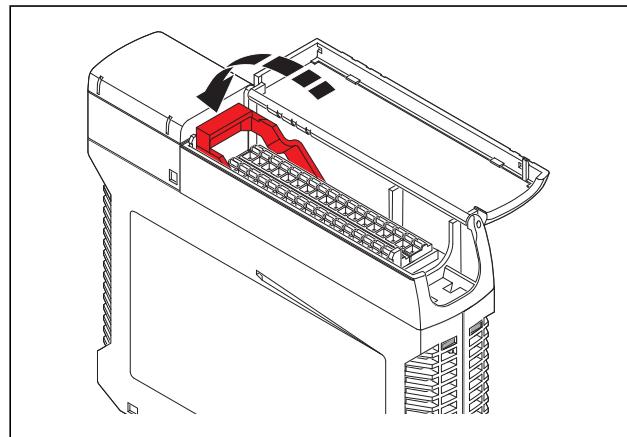


Figure 8 Close

- Swivel the lever back to the left. The connection technology carrier slides into the housing. If that does not go easily, check the seating of the engagement noses.

### 5.3 Connection technology carrier CT10

	<b>Connection technology carrier</b> , fully assembled with FKCN ME PLC 40 CT10 GY7035 1 x 10-pos., cover and release lever, incl. fitted cover	2201492
	Matching PCB plug-in connector MSTBA 2.5/10-G	1757543

#### 5.3.1 Dimensional drawing PCB fragment and drilling diagram CT10

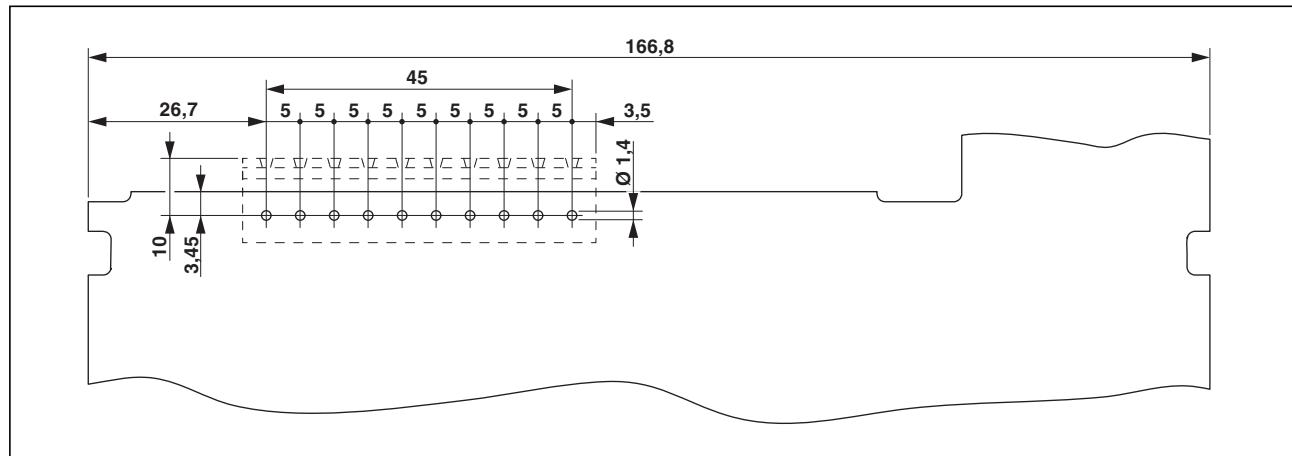


Figure 9 Dimensional drawing of the PCB of the housing when using the connection technology carrier CT10



The detailed PCB contour and the locked areas can be found in the 3D housing data.  
The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

### 5.3.2 PCB plug-in connector for CT10

To connect the connection technology carrier ME PLC 40 CT10 to the PLC, you need the PCB plug-in connector MSTBA 2.5/10-G.

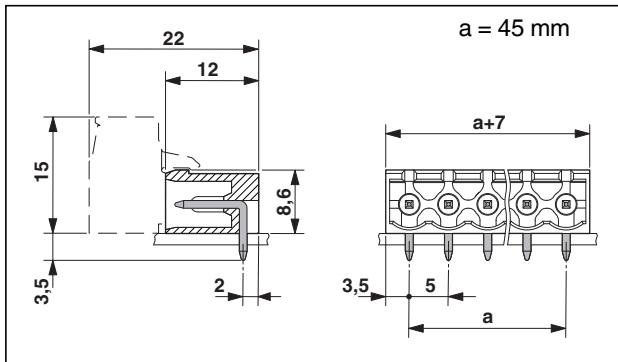


Figure 10 Dimensions MSTBA 2.5/10-G

### MSTBA 2.5/10-G, 1757543

#### Dimensions / Positions

Length	12 mm
Pitch	5 mm
Dimension a	45 mm
No. of positions	10
Pin dimensions	1 x 1 mm
Hole diameter	1.4 mm

#### Technical data

Range of articles	MSTBA 2.5/...-G...
Insulation material group	IIIa
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal voltage $U_N$	250 V
Maximum load current	12 A
Insulation material	PBT
Inflammability class in acc. with UL 94	V0
Color	green
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	15 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	15 A

## 5.4 Connection technology carrier CT20

	<b>Connection technology carrier</b> , fully assembled with FKCN ME PLC 40 CT20 GY7035 2 x 10-pos., cover and release lever, incl. fitted cover	2201493
	Matching PCB plug-in connector CCDN 2.5/10-G1 P26 THR	1734355

### 5.4.1 Dimensional drawing PCB fragment and drilling diagram CT20

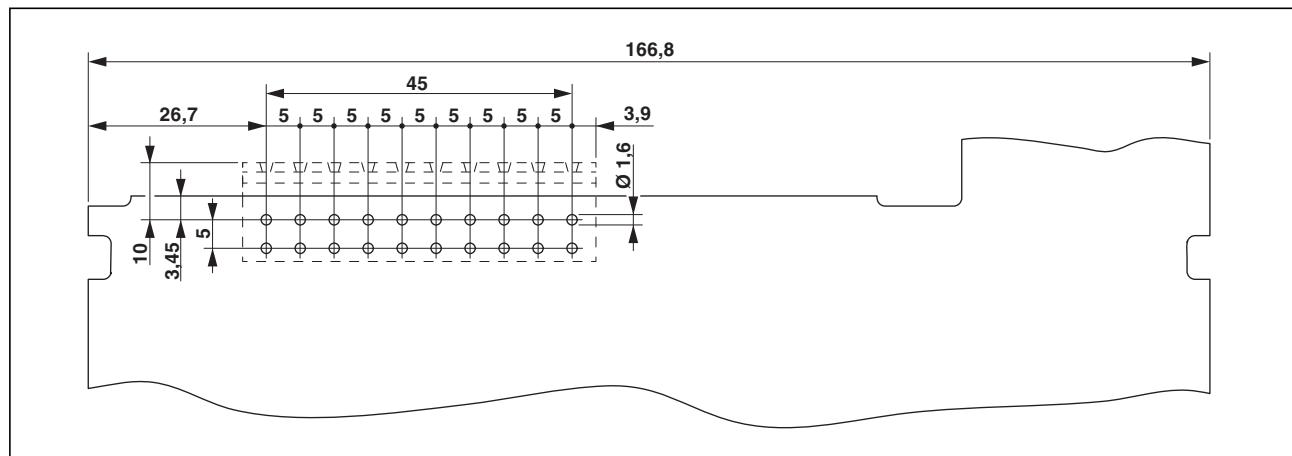


Figure 11 Dimensional drawing of the PCB of the housing when using the connection technology carrier CT20



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

#### 5.4.2 PCB plug-in connector for CT20

To connect the connection technology carrier ME PLC 40 CT20 with the PLC, you need the PCB plug-in connector CCDN 2.5/10-G1 P26 THR.

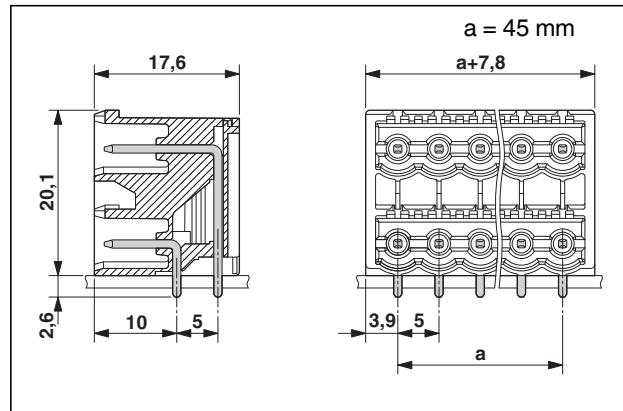


Figure 12 Dimensions CCDN 2.5/10-G1 P26 THR

#### CCDN 2.5/10-G1 P26 THR, 1734355

##### Dimensions / Positions

Length	17.6 mm
Pitch	5 mm
Dimension a	45 mm
No. of positions	10
Pin dimensions	1 x 1
Hole diameter	1.6 mm

##### Technical data

Range of articles	CCDN 2.5/..- G1-THR
Insulation material group	IIIa
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/2)	400 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal voltage $U_N$	320 V
Maximum load current	12 A
Insulation material	LCP
Inflammability class in acc. with UL 94	V0
Color	black

## 5.5 Connection technology carrier CT36

	<b>Connection technology carrier</b> , fully assembled with FKCN ME PLC 40 CT36 GY7035 2 x 18-pos., cover and release lever, incl. fitted cover	2201494
	Matching PCB plug-in connector <b>CCDN 2.5/18-G1 P26 THR</b>	1734436

### 5.5.1 Dimensional drawing PCB fragment and drilling diagram CT36

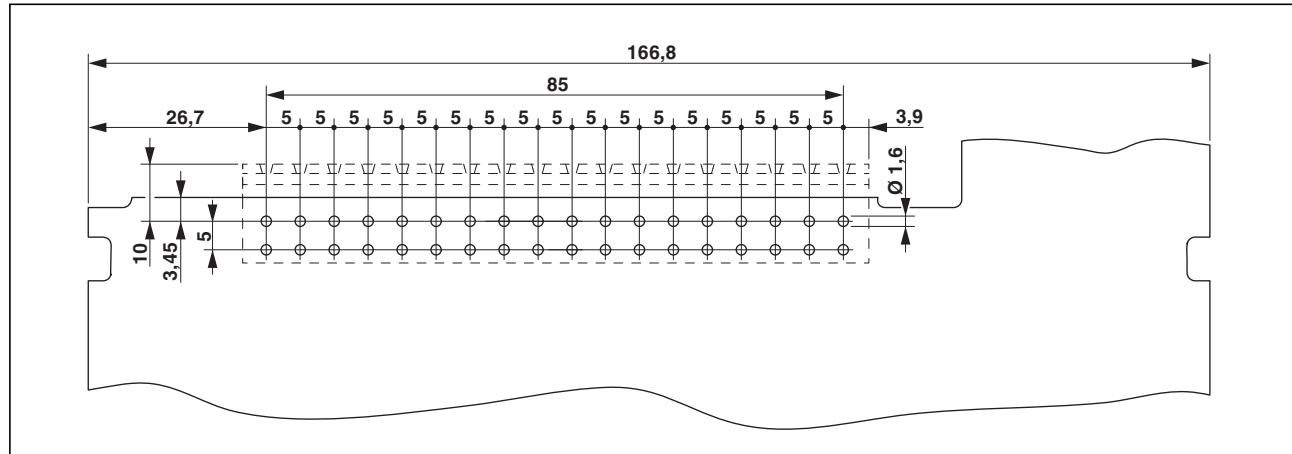


Figure 13 Dimensional drawing of the PCB of the housing when using the connection technology carrier CT36



The detailed PCB contour and the locked areas can be found in the 3D housing data.  
 The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

### 5.5.2 PCB plug-in connector for CT36

To connect the connection technology carrier ME PLC 40 CT36 to the PLC, you need the PCB plug-in connector CCDN 2.5/18-G1 P26 THR.

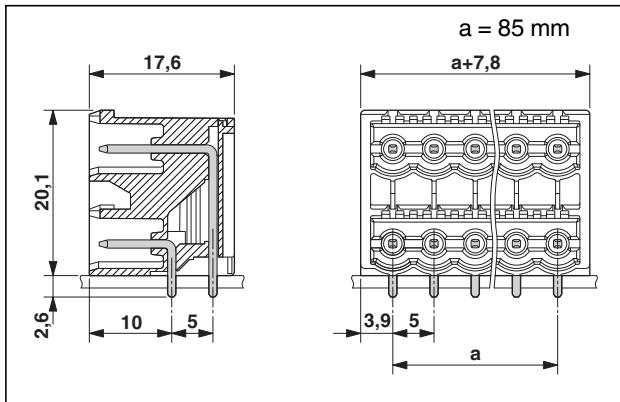


Figure 14 Dimensions CCDN 2.5/18-G1 P26 THR

### CCDN 2.5/18-G1 P26 THR, 1734436

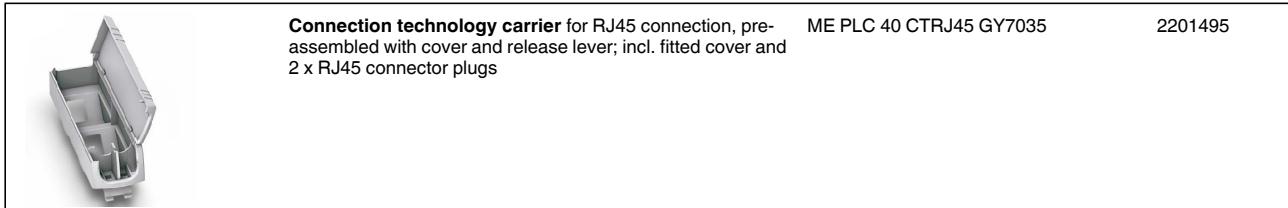
#### Dimensions / Positions

Length	17.6 mm
Pitch	5 mm
Dimension a	85 mm
No. of positions	18
Pin dimensions	1 x 1
Hole diameter	1.6 mm

#### Technical data

Insulation material group	IIIa
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/2)	400 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal voltage $U_N$	320 V
Maximum load current	12 A
Insulation material	LCP
Inflammability class in acc. with UL 94	V0
Color	black

## 5.6 Connection technology carrier RJ45



### 5.6.1 Dimensional drawing PCB fragment and drilling diagram RJ45

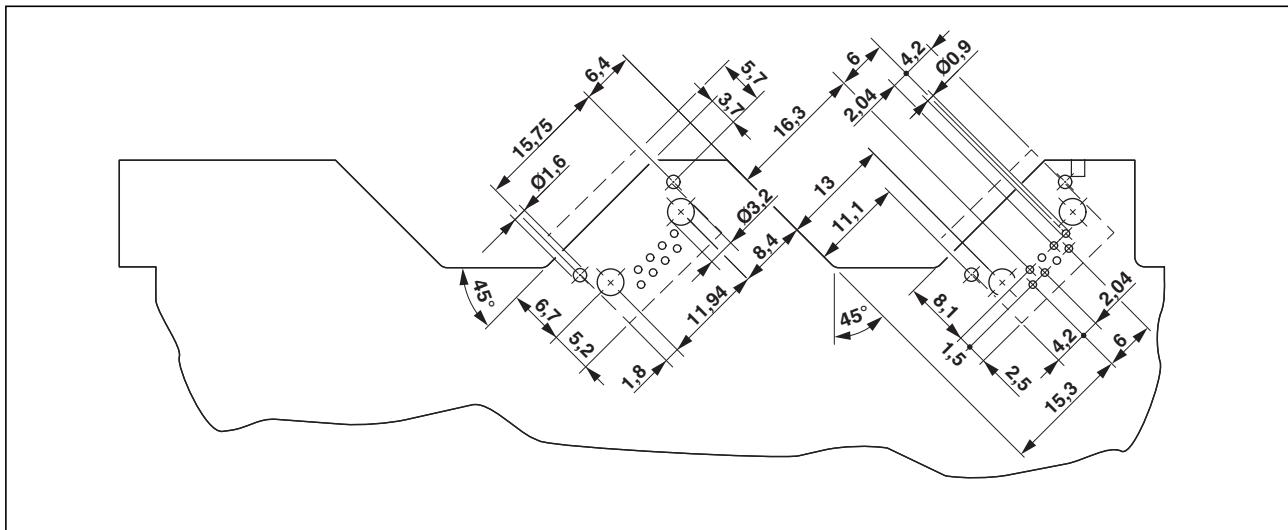


Figure 15 Dimensional drawing of the PCB housing when using the connection technology carrier RJ45



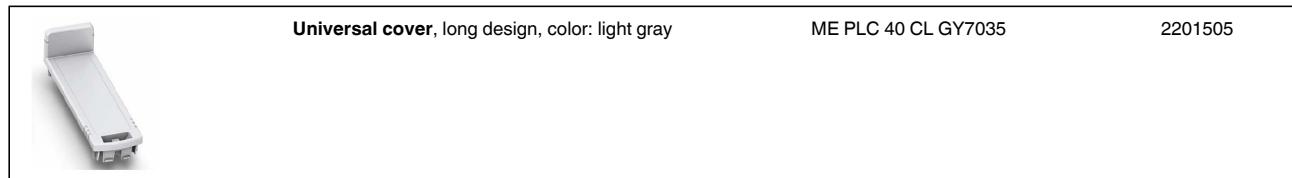
The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

#### Technical data

Connector type	RJ45
Contact type	Socket
Number of contacts	8
Number of locations	8
Number of ports	1
LAN type	CAT6A
Contact connection	Push-through assembly, perpendicular

## 5.7 Universal cover CL



### 5.7.1 Dimensional drawing PCB CL

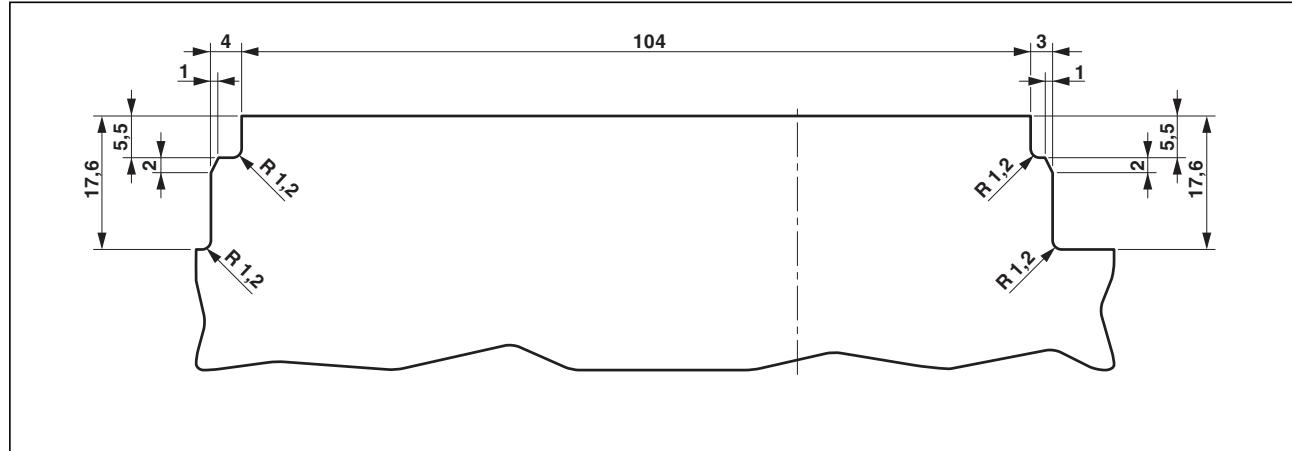


Figure 16 Dimensional drawing of the PCB of the housing when using the universal cover CL

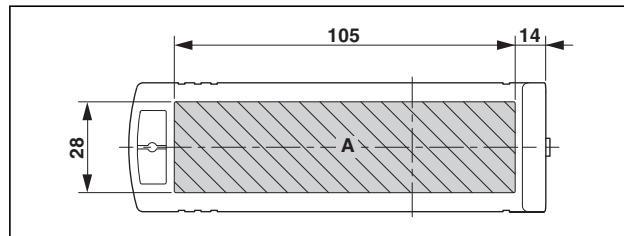


Figure 17 Maximum useable area for break-outs (A)

The middle lines in Figure 16 and Figure 17 refer to the location in the housing base.



We can gladly make openings for any of your display or operating elements.

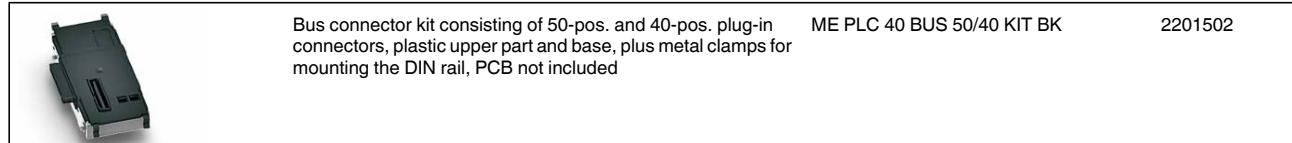


The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

## 6 Bus connector set

### 6.1 Bus connector 50/40



#### 6.1.1 Overview of the set 50/40

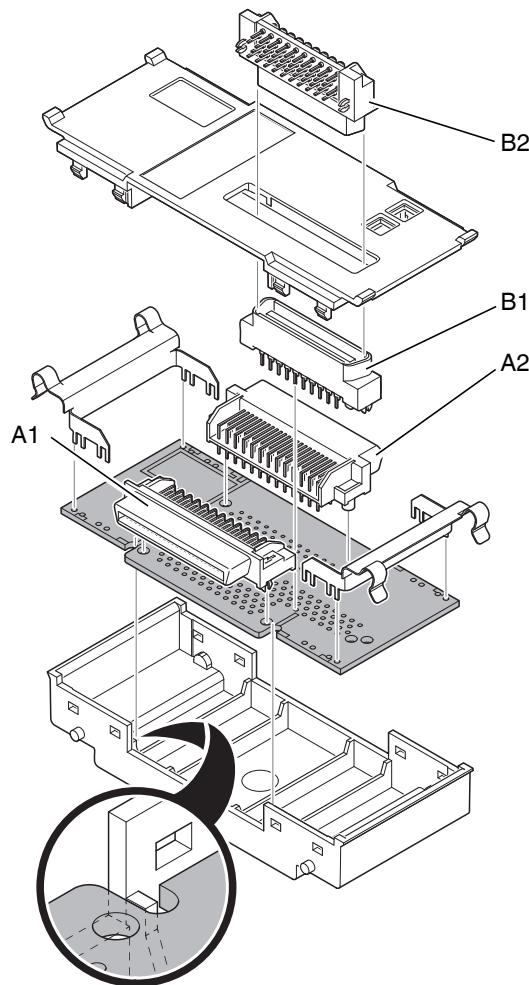


Figure 18 Overview set 50/40

#### 6.1.2 Mounting

- Solder the plug-in connectors A1, A2, and B1 onto your PCB.
- Solder the two metal terminals onto your PCB.



Observe the proper orientation of the PCB when inserting it into the housing. The housing base has raised supports on one side. The PCB side with the cut-out belongs on this side.

- Insert the PCB.
- Put the top and bottom parts together.
- Solder the plug-in connector B2 to the PCB of the housing base ME PLC 40 B BUS 50/40 GY7035, 2201499.

#### 6.1.3 Coding

You have the option to codify the bus connector and the housing. This should prevent a housing being accidentally plugged onto the wrong bus connector.

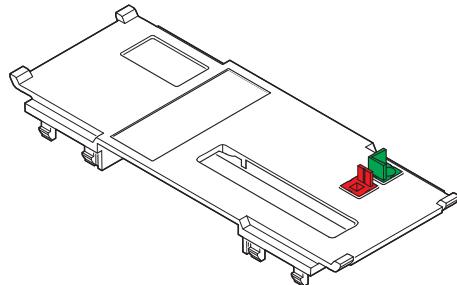


Figure 19 Coding option

Coding sets in rectangular and drop form are available (see “Ordering data” on page 3).

- Plug one part of the coding set into the opening of the bus connector.
- The counter-part goes into the housing.

## 6.1.4 Dimensional drawing PCB 50/40

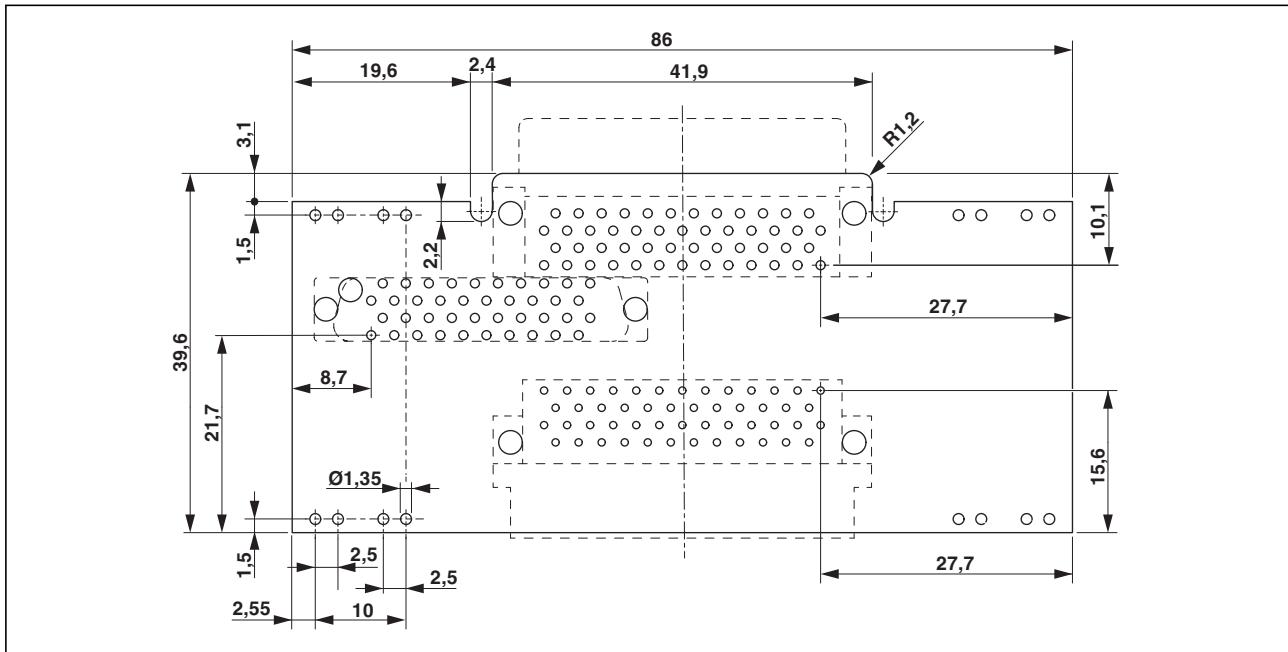


Figure 20 Dimensional drawing of the PCB for the bus connector set 50/40



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

### 6.1.5 50-pos. plug-in connector (A1) for 50/40

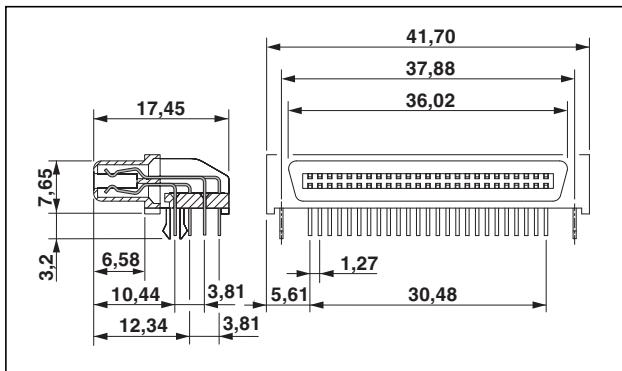


Figure 21 Dimensions A1, 50-pos

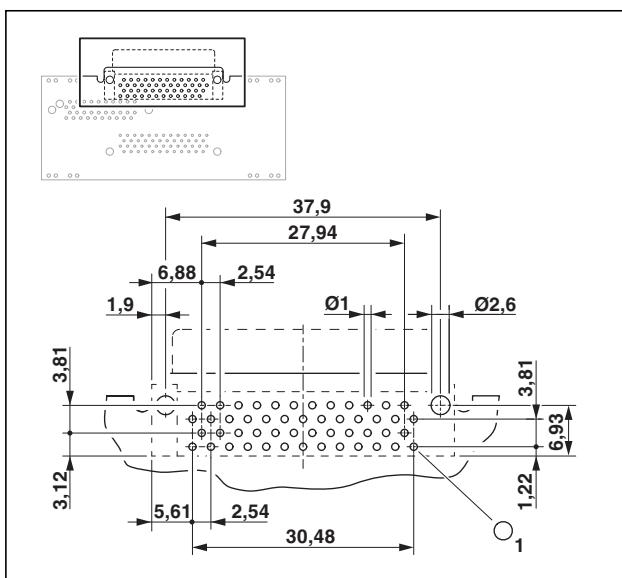


Figure 22 Drilling diagram A1, 50-pos.

### A1

#### Dimensions / Positions

Pitch	1.27 mm
Width	41.70mm
No. of positions	50
Number of rows	4
Orientation	Perpendicular
Hole diameter	1.0
Length of the solder pin	2.80 mm
Recommended thickness of the PCB	1.60 mm

#### Technical data

Current per connection	1 A, maximum
Voltage	30 V
Inflammability class in acc. with UL 94	V0
Color	black
Temperature range, operating	-55°C ...+105°C

#### Solder connection

Type of contact	Soldering method
Lead-free	SMC & Wave capable (TH only)
Duration at maximum processing temperature	5 s
Cycles at maximum processing temperature	1, maximum
Processing temperature	maximum 270°C



The precise location of the plug-in connectors on the PCB can be found in Figure 20 on page 16.

### 6.1.6 50-pos. plug-in connector (A2) for 50/40

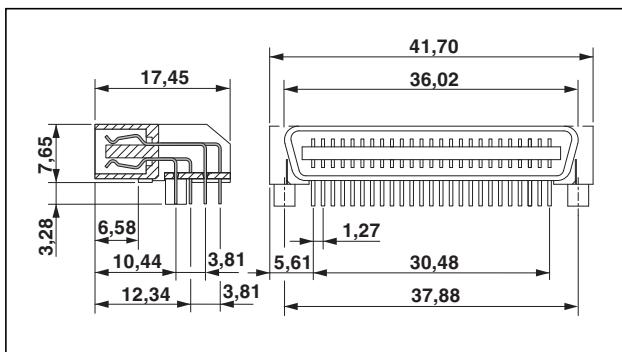


Figure 23 Dimensions A2, 50-pos.

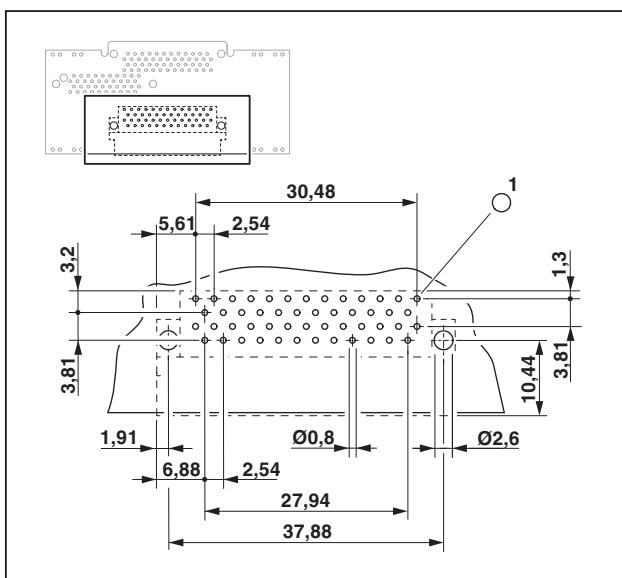


Figure 24 Drilling diagram A2, 50-pos.

#### A2

##### Dimensions / Positions

Pitch	1.27 mm
No. of positions	50
Number of rows	4
Orientation	Perpendicular
Hole diameter	0.8 mm
Length of the solder pin	2.79 mm
Recommended thickness of the PCB	1.60 mm

##### Technical data

Current per connection	1 A, maximum
Voltage	30 V
Inflammability class in acc. with UL 94	V0
Color	black
Temperature range, operating	-40°C ...+105°C

##### Solder connection

Type of contact	Soldering method
Lead-free	SMC & Wave capable (TH only)
Duration at maximum processing temperature	5 s
Cycles at maximum processing temperature	1, maximum
Processing temperature	maximum 270°C



The precise location of the plug-in connectors on the PCB can be found in Figure 20 on page 16.

### 6.1.7 40-pos. plug-in connector (B1) for 50/40

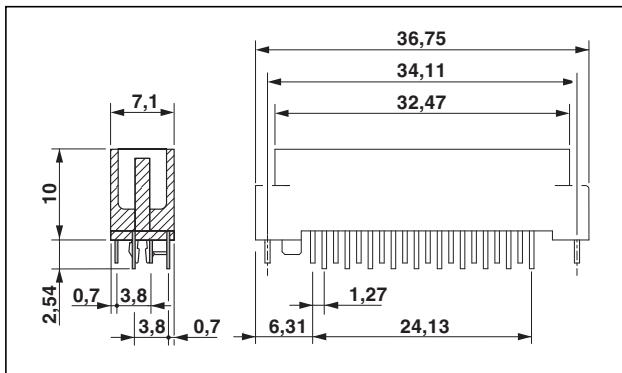


Figure 25 Dimensions B1, 40-pos.

### B1

#### Dimensions / Positions

Pitch	1.27 mm
No. of positions	40
Number of rows	4
Orientation	Vertical
Hole diameter	1.0 mm
Length of the solder pin	2.54 mm
Recommended thickness of the PCB	1.60 mm

#### Technical data

Current per connection	1 A, maximum
Voltage	250 V AC
Insulation material	LCP
Inflammability class in acc. with UL 94	V0
Color	black

#### Solder connection

Lead-free soldering process	Yes
-----------------------------	-----

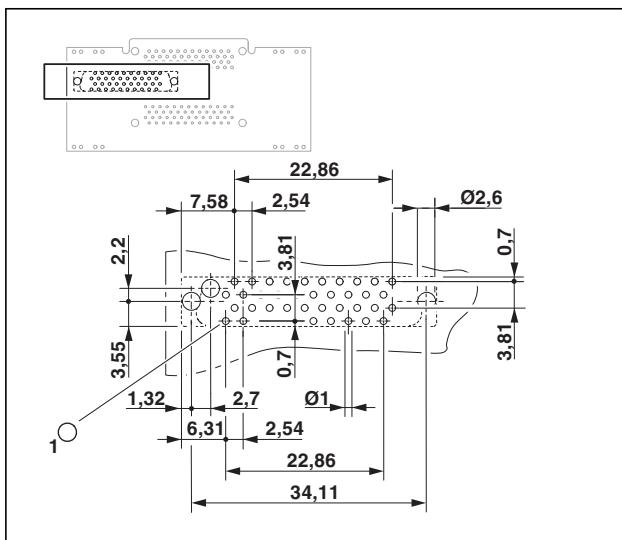


Figure 26 Drilling diagram, 40-pos.



The precise location of the plug-in connectors on the PCB can be found in Figure 20 on page 16.

### 6.1.8 40-pos. plug-in connector (B2) for contacting in the bus connector set 50/40

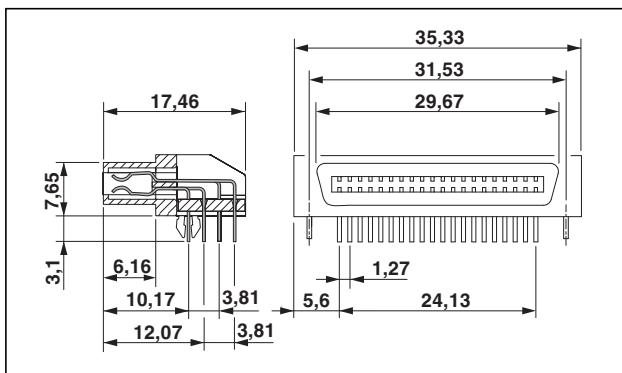


Figure 27 Dimensions B2, 40-pos.

#### B2

##### Dimensions / Positions

Pitch	1.27 mm
No. of positions	40
Number of rows	4
Orientation	Perpendicular
Hole diameter	1.0 mm
Length of the solder pin	3.10 mm
Recommended thickness of the PCB	1.60 mm

##### Technical data

Current per connection	1 A, maximum
Voltage	250 V AC
Insulation material	LCP
Inflammability class in acc. with UL 94	V0
Color	black

##### Solder connection

Lead-free soldering process	Yes
-----------------------------	-----

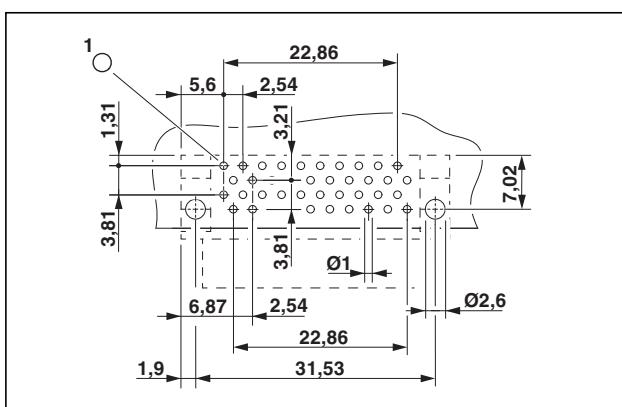


Figure 28 Drilling diagram B2, 40-pos.

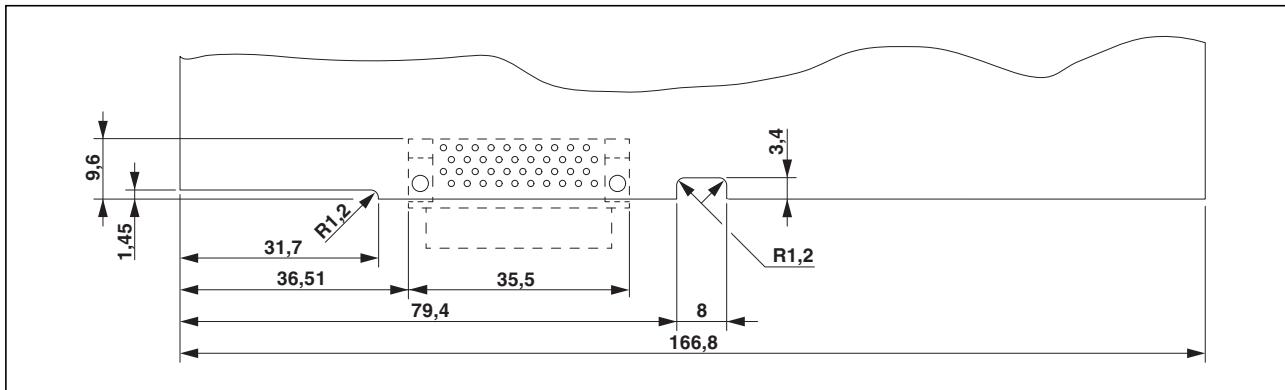
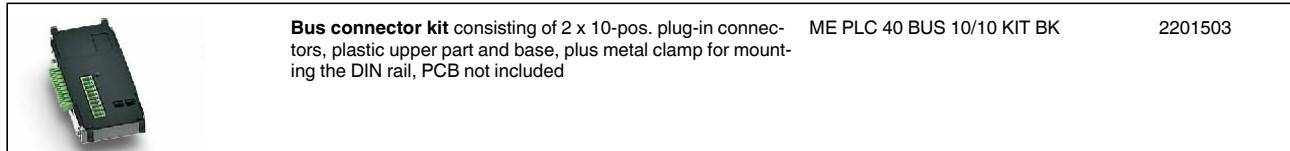


Figure 29 Dimensional drawing of the PCB of the housing (2201500) with plug-in connector (B2)

## 6.2 Bus connector 10/10



### 6.2.1 Overview of the set 10/10

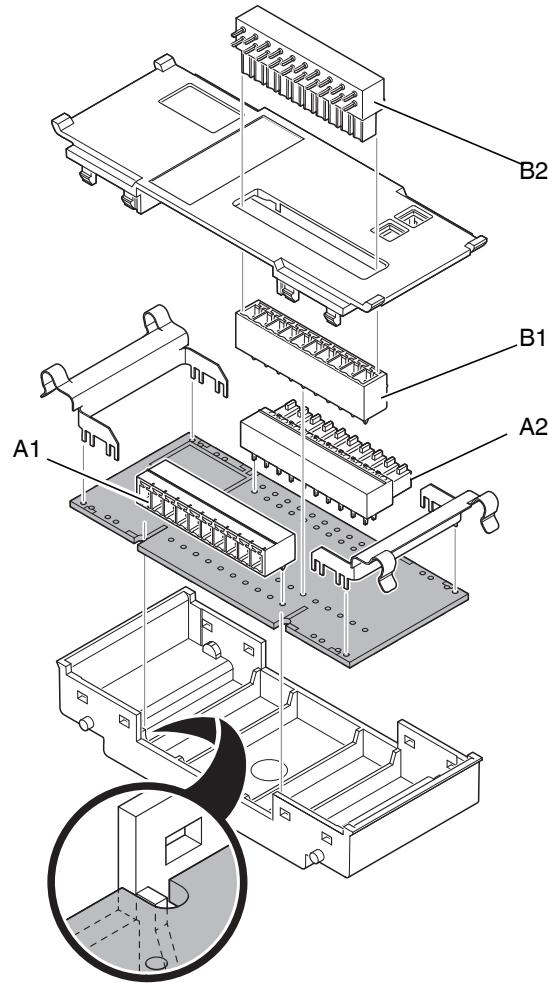


Figure 30 Overview of the set 10/10

### 6.2.2 Mounting

- Solder the plug-in connectors A1, A2, and B1 onto your PCB.
- Solder the two metal terminals onto your PCB.



Observe the proper orientation of the PCB when inserting it into the housing. The housing base has raised supports on one side. The PCB side with the cut-out belongs on this side.

- Insert the PCB.
- Put the top and bottom parts together.
- Solder the plug-in connector B2 to the PCB of the housing base ME PLC 40 B BUS 10/10 GY7035, 2201500.

### 6.2.3 Coding

You have the option to codify the bus connector and the housing. This should prevent a housing being accidentally plugged onto the wrong bus connector.

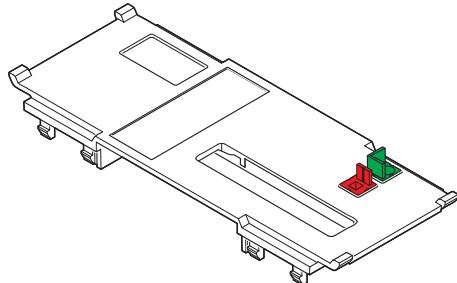


Figure 31 Coding option

Coding sets in rectangular and drop form are available (see "Ordering data" on page 3).

- Plug one part of the coding set into the opening of the bus connector.
- The counter-part goes into the housing.

## 6.2.4 Dimensional drawing PCB 10/10

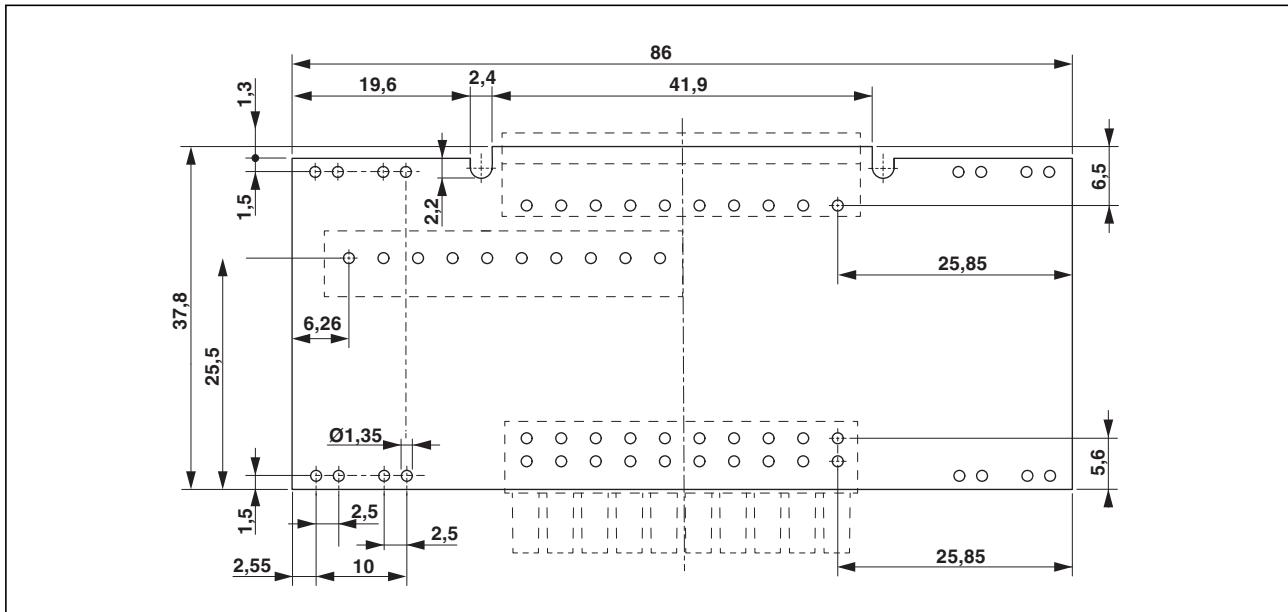


Figure 32 Dimensional drawing of the PCB for the bus connector set 10/10



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at  
[phoenixcontact.net/products](http://phoenixcontact.net/products).

### 6.2.5 10-pos. base strip (A1) for 10/10

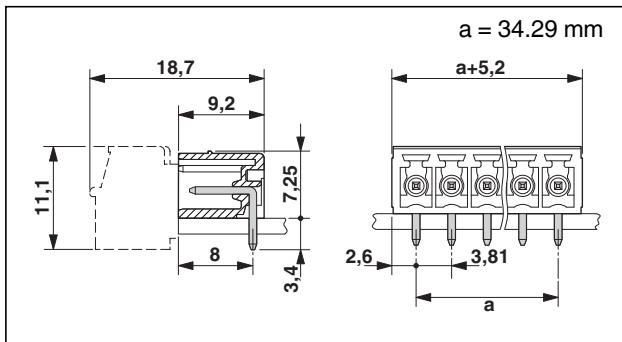


Figure 33 Dimensions MC 1.5/10-G-3.81

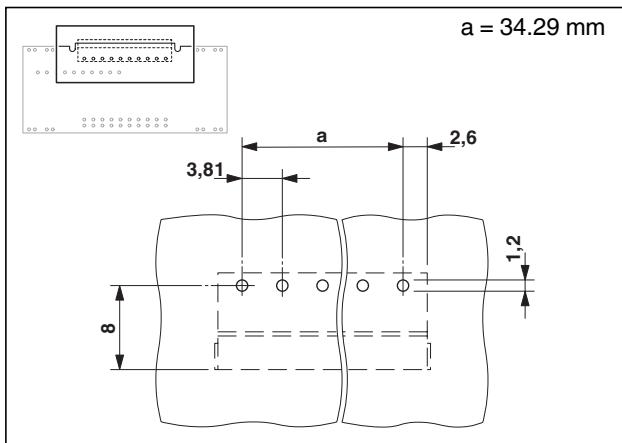


Figure 34 Drilling diagram MC 1.5/10-G-3.81

### MC 1.5/10-G-3.81,1803358

#### Dimensions / Positions

Length	9.2 mm
Pitch	3.81 mm
Dimension a	34.29 mm
No. of positions	10
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm

#### Technical data

Range of articles	MC 1.5/..-G
Insulation material group	IIIa
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	250 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	8 A
Nominal voltage $U_N$	160 V
Maximum load current	8 A
Insulation material	PBT
Inflammability class in acc. with UL 94	V0
Color	green
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A



The precise location of the plug-in connectors on the PCB can be found in Figure 32 on page 22.

## 6.2.6 10-pos. base strip (A2) for 10/10

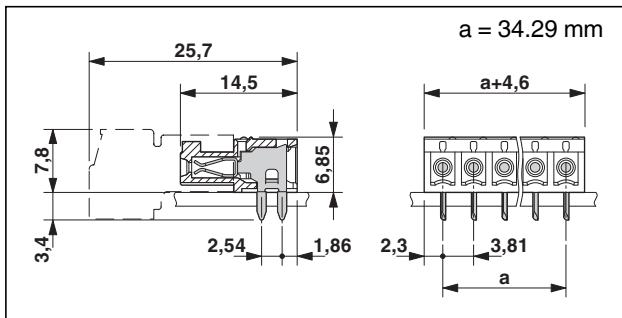


Figure 35 Dimensions IMC 1.5/10-G-3.81

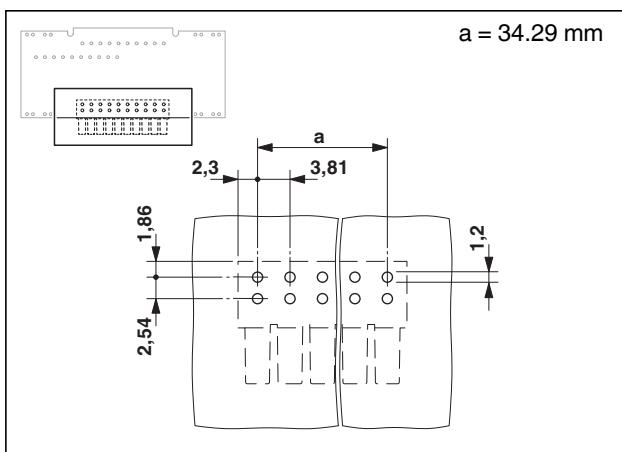


Figure 36 Drilling diagram IMC 1.5/10-G-3.81



The precise location of the plug-in connectors on the PCB can be found in Figure 32 on page 22.

## IMC 1.5/10-G-3.81, 1862658

## Dimensions / Positions

Length	14.5 mm
Pitch	3.81 mm
Dimension a	34.29 mm
No. of positions	10
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm

## Technical data

Range of articles	IMC 1.5/..-G
Insulation material group	I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	8 A
Nominal voltage $U_N$	160 V
Maximum load current	8 A
Insulation material	PA
Inflammability class in acc. with UL 94	V0
Color	green
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A

### 6.2.7 10-pos. base strip (B1) for 10/10

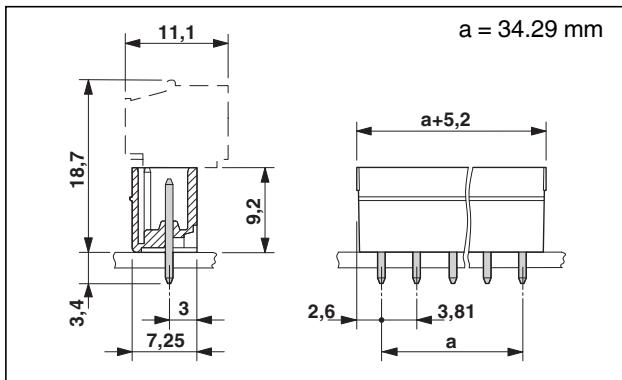


Figure 37 Dimensions MCV 1.5/10-G-3.81

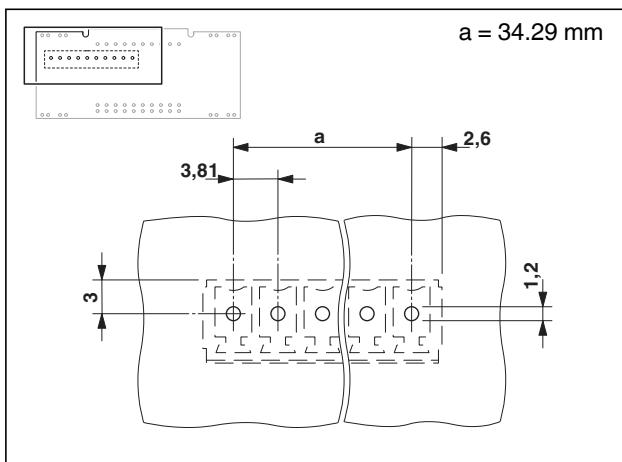


Figure 38 Drilling diagram MCV 1.5/10-G-3.81

### MCV 1.5/10-G-3.81, 1803507

#### Dimensions / Positions

Length	7.25 mm
Pitch	3.81 mm
Dimension a	34.29 mm
No. of positions	10
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm

#### Technical data

Range of articles	MCV 1.5/..-G
Insulation material group	IIIa
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	250 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	8 A
Nominal voltage $U_N$	160 V
Maximum load current	8 A
Insulation material	PBT
Inflammability class in acc. with UL 94	V0
Color	green
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A



The precise location of the plug-in connectors on the PCB can be found in Figure 32 on page 22.

### 6.2.8 10-pos. base strip (B2) for contacting in the bus connector set 10/10

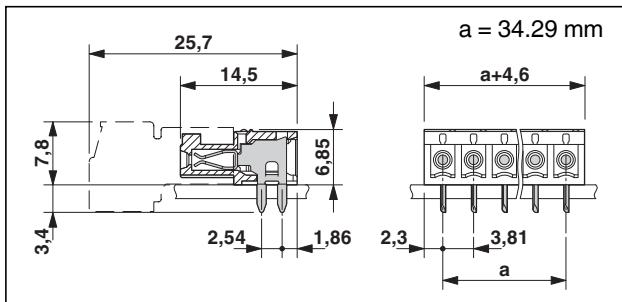


Figure 39 Dimensions IMC 1.5/10-G-3.81

### 6.2.9 IMC 1.5/10-G-3.81, 1862658

#### Dimensions / Positions

Length	14.5 mm
Pitch	3.81 mm
Dimension a	34.29 mm
No. of positions	10
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.2 mm

#### Technical data

Range of articles	IMC 1.5/..-G
Insulation material group	I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	8 A
Nominal voltage $U_N$	160 V
Maximum load current	8 A
Insulation material	PA
Inflammability class in acc. with UL 94	V0
Color	green
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A

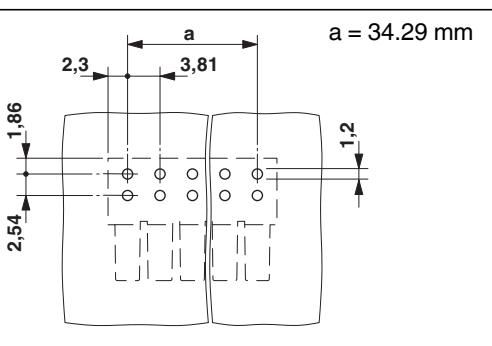


Figure 40 Drilling diagram IMC 1.5/10-G-3.81



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

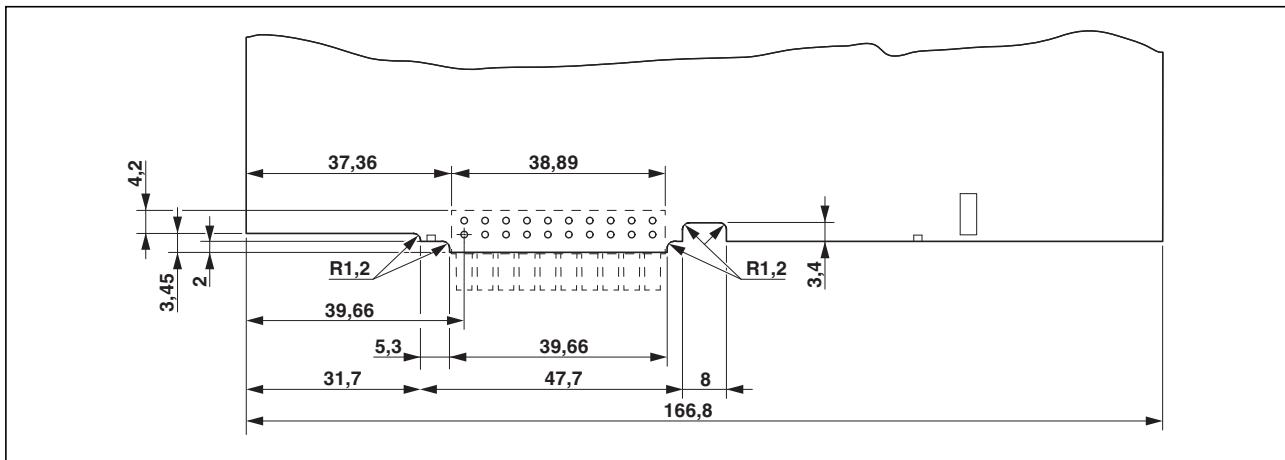


Figure 41 Dimensional drawing of the PCB of the housing (2201499) with plug-in connector (B2)

## 7 Array and fitted plate

	Matrix with defined engagement mechanism, for assembly underneath the cover in short design (ME PLC 40 CS...), color: black	ME PLC 40 MT S BK	2201496
	Fitted plate, for assembly underneath the cover in short design (ME PLC 40 CS...), color: light gray	ME PLC 40 PL S GY7035	2201497

### 7.1 Dimensional drawing array

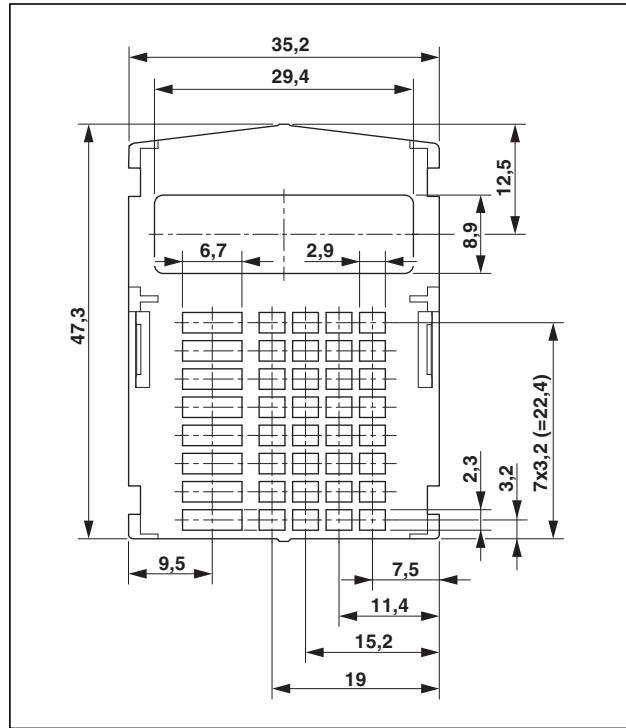


Figure 42 Dimensional drawing array (2201496)

The array and the fitted plate can be mounted under the transparent cover.

The array has a defined hole raster in which for example LEDs of the 7-segment display can be positioned.

The fitted plate can be used universally.

### 7.2 Dimensional drawing fitted plate

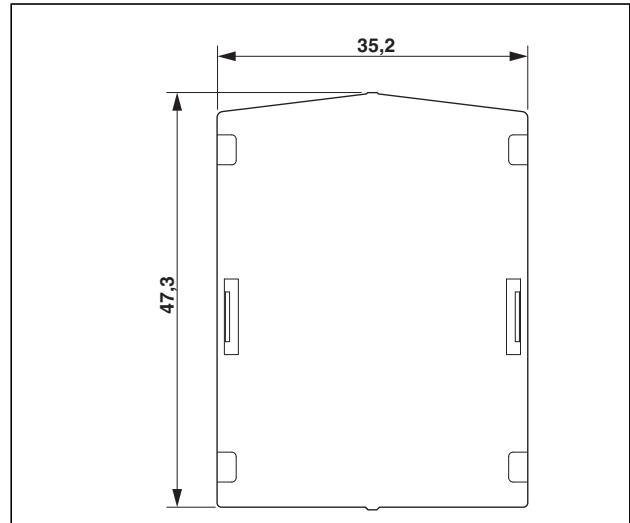


Figure 43 Dimensional drawing fitted plate (2201497)



We can gladly make openings for any of your display or operating elements.

### 7.3 Dimensional drawing of the PCB for mounting under array or fitted plate

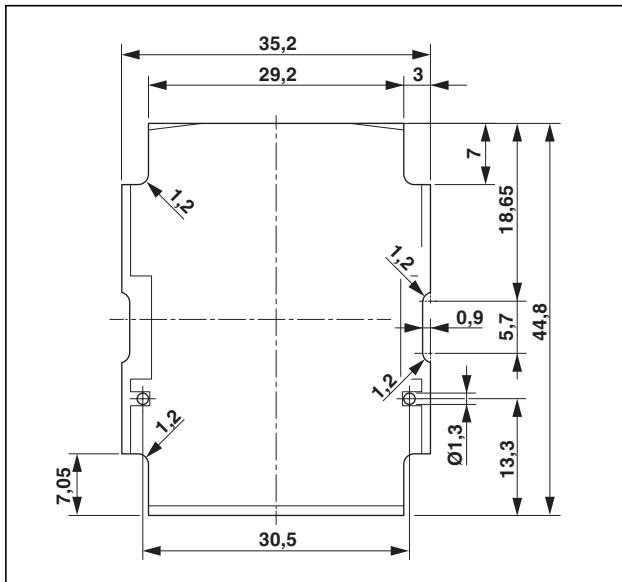


Figure 44 Dimensional drawing of the horizontal PCB for mounting under the array (2201496) or the fitted plate (2201497)

### 7.4 Dimensional drawing housing PCB (housing with array or with fitted plate)

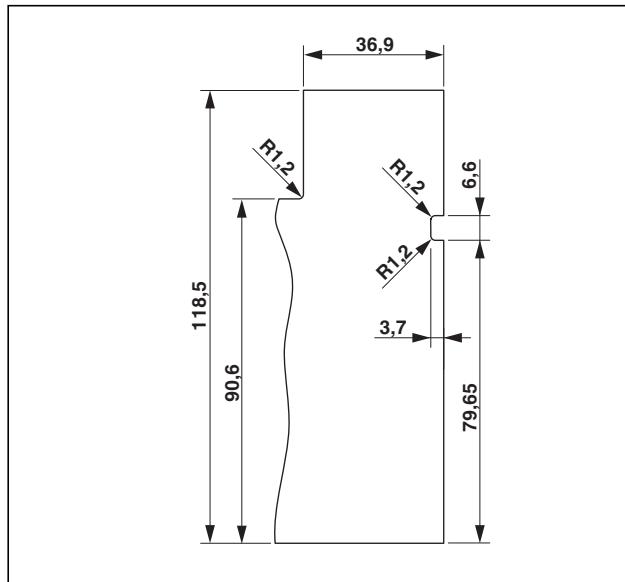


Figure 45 Dimensional drawing of the perpendicular housing PCB when using the array (2201496) or the fitted plate (2201497)



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

## 8 Close with cover (without array or fitted plate)

		<b>Cover, short design, color: light gray</b>	ME PLC 40 CS GY7035	2201490
		<b>Cover, short design, color: transparent</b>	ME PLC 40 CS TRANS	2201491

### 8.1 Dimensional drawing housing PCB

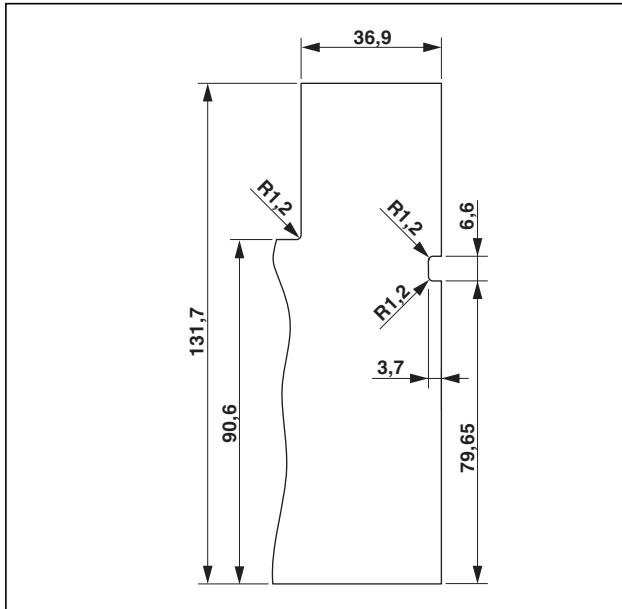


Figure 46 Dimensional drawing of the housing PCB when using the short cover without array or fitted plate



The detailed PCB contour and the locked areas can be found in the 3D housing data.

The 3D-CAD download can be found at [phoenixcontact.net/products](http://phoenixcontact.net/products).

Both cover versions serve to close the display area of the housing.

Display elements can be protected against touch and dust under the transparent cover.

The light-gray cover closes off the housing when no display elements are being used.

## 9 Mounting on a DIN rail

### 9.1 Mounting on NS 105/20

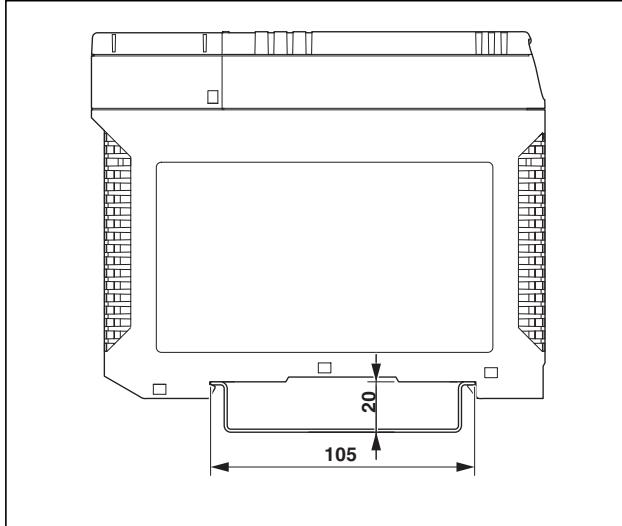


Figure 47 Dimensional drawing with NS 105/20

#### 9.1.1 Order key for DIN rail NS 105/20

Order, for example, a 40-mm long DIN rail with "1 / 2201508 / 40".

Quantity	Order no.	Length [mm]
1	2201508	40 min. 40 mm max. 2000 mm

#### 9.1.2 Dimensions of the DIN rail NS 105/20

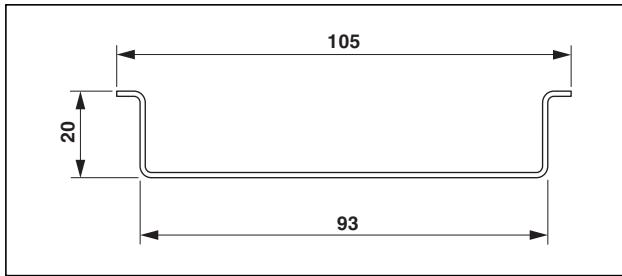


Figure 48 Dimensions NS 105/20

### 9.2 Mounting on NS 35/15

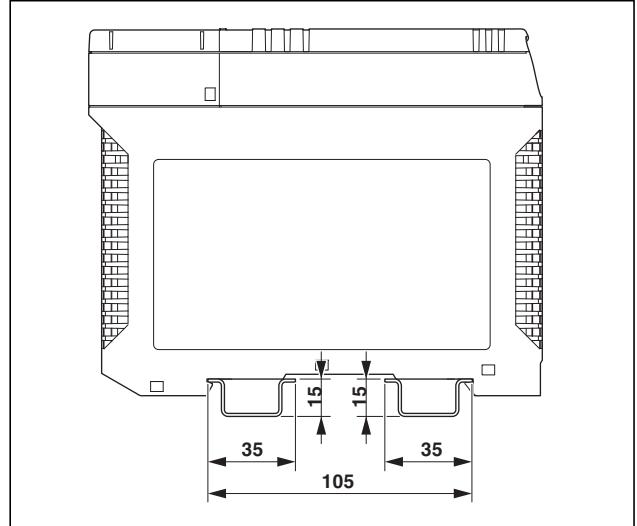


Figure 49 Dimensional drawing with NS 35/15

As an alternative, the housing can be snapped onto two NS 35/15 DIN rails.

No bus connectors can be mounted in this fastening mode.