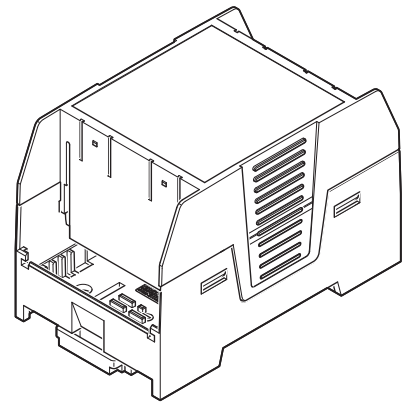


# Series EH...F electronics housings

## Series EH...F electronics housings for universal use, flat design

Data sheet  
106461\_en\_00

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### 1 Description

The series EH...F electronics housings consist of a lower housing part that can be combined with three different housing covers. The housing is available in seven overall widths.

The housing covers are snapped onto the lower housing part. They are available with connection technology openings either on one side or on both sides. Closed housing covers are also available. They can be provided with customer-specific openings.

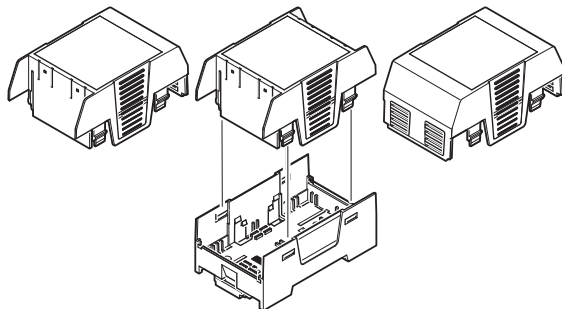


Figure 1 Housing covers and lower housing part

The receptacle housing version ensures shock and contamination-proof accommodation of electronic components.

Different connection technologies for the PCBs can be integrated in the housing. The PCBs can be mounted horizontally. They also have a large assembly area.

The housings can be snapped onto symmetrical DIN rails according to EN 60715. Wall mounting is also possible.

The housings are available in material version ABS. This type is approved for flammability rating HB according to UL 94.

The housing covers are provided with integrated labeling fields for device marking.



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 from page 3.

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## 2 Overview of the EH...F products

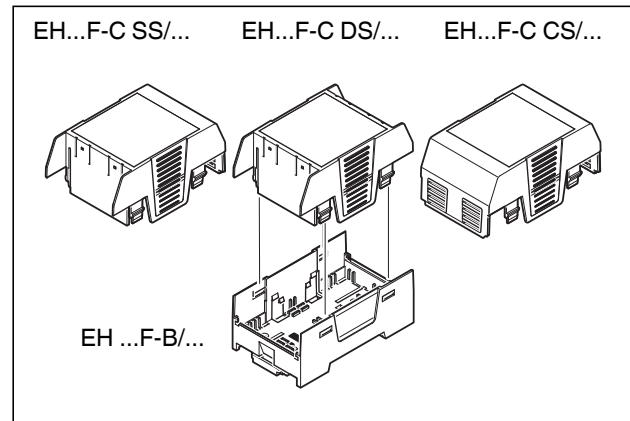


Figure 2 Overview (example, EH 45 F)

### 3 Ordering data

#### Electronics housing of width 22.5

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 22.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 22,5 F-B/ABS GY7035	2200665	10
Color: black, similar to RAL 9005	EH 67,5-B/ABS BK9005	2200666	10
<b>Housing cover</b> for PCB connection on one side, width 22.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 22,5 F-C SS/ABS GY7035	2200674	10
Color: black, similar to RAL 9005	EH 22,5 F-C SS/ABS BK9005	2201452	10
<b>Housing cover</b> for PCB connection on two sides, width 22.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 22,5 F-C DS/ABS GY7035	2201453	10
Color: black, similar to RAL 9005	EH 22,5 F-C DS/ABS BK9005	2201456	10
<b>Housing cover</b> , closed, width 22.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 22,5 F-C CS/ABS GY7035	2201653	10
Color: black, similar to RAL 9005	EH 22,5 F-C CS/ABS BK9005	2201765	10

#### Electronics housing of width 35

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 35 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 35 F-B/ABS GY7035	2201814	10
Color: black, similar to RAL 9005	EH 35 F-B/ABS BK9005	2201815	10
<b>Housing cover</b> for PCB connection on one side, width 35 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 35-C SS/ABS GY7035	2201820	10
Color: black, similar to RAL 9005	EH 35-C SS/ABS BK9005	2201821	10
<b>Housing cover</b> for PCB connection on two sides, width 35 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 35 F-C DS/ABS GY7035	2201826	10
Color: black, similar to RAL 9005	EH 35 F-C DS/ABS BK9005	2201827	10
<b>Housing cover</b> , closed, width 35 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 35 F-C CS/ABS GY7035	2201832	10
Color: black, similar to RAL 9005	EH 35 F-C CS/ABS BK9005	2201833	10

**Electronics housing of width 45**

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 45 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 45 F-F-B/ABS GY7035	2200474	10
Color: black, similar to RAL 9005	EH 45 F-F-B/ABS BK9005	2200492	10
<b>Housing cover</b> for PCB connection on one side, width 45 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 45 F-C SS/ABS GY7035	2200789	10
Color: black, similar to RAL 9005	EH 45 F-C SS/ABS BK9005	2201448	10
<b>Housing cover</b> for PCB connection on two sides, width 45 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 45 F-C DS/ABS GY7035	2201770	10
Color: black, similar to RAL 9005	EH 45 F-C DS/ABS BK9005	2201771	10
<b>Housing cover</b> , closed, width 45 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 45 F-C CS/ABS GY7035	2201769	10
Color: black, similar to RAL 9005	EH 45 F-C CS/ABS BK9005	2201766	10

**Electronics housing of width 52.5**

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 52.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 52,5 F-F-B/ABS GY7035	2201816	10
Color: black, similar to RAL 9005	EH 52,5 F-F-B/ABS BK9005	2201817	10
<b>Housing cover</b> for PCB connection on one side, width 52.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 52,5 F-C SS/ABS GY7035	2201822	10
Color: black, similar to RAL 9005	EH 52,5 F-C SS/ABS BK9005	2201823	10
<b>Housing cover</b> for PCB connection on two sides, width 52.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 52,5 F-C DS/ABS GY7035	2201829	10
Color: black, similar to RAL 9005	EH 52,5 F-C DS/ABS BK9005	2201828	10
<b>Housing cover</b> , closed, width 52.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 52,5 F-C CS/ABS GY7035	2201835	10
Color: black, similar to RAL 9005	EH 52,5 F-C CS/ABS BK9005	2201834	10

**Electronics housing of width 67.5**

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 67.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 67,5 F-F-B/ABS GY7035	2200519	10
Color: black, similar to RAL 9005	EH 67,5 F-F-B/ABS BK9005	2200520	10
<b>Housing cover</b> for PCB connection on one side, width 67.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 67,5 F-C SS/ABS GY7035	2201097	10
Color: black, similar to RAL 9005	EH 67,5 F-C SS/ABS BK9005	2201447	10
<b>Housing cover</b> for PCB connection on two sides, width 67.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 67,5 F-C DS/ABS GY7035	2201773	10
Color: black, similar to RAL 9005	EH 67,5 F-C DS/ABS BK9005	2201772	10
<b>Housing cover</b> , closed, width 67.5 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 67,5 F-C CS/ABS GY7035	2201774	10
Color: black, similar to RAL 9005	EH 67,5 F-C CS/ABS BK9005	2201775	10

**Electronics housing of width 70**

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 70 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 70 F-F-B/ABS GY7035	2201819	10
Color: black, similar to RAL 9005	EH 70 F-F-B/ABS BK9005	2201818	10
<b>Housing cover</b> for PCB connection on one side, width 70 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 70 F-C SS/ABS GY7035	2201825	10
Color: black, similar to RAL 9005	EH 70 F-C SS/ABS BK9005	2201824	10
<b>Housing cover</b> for PCB connection on two sides, width 70 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 70 F-C DS/ABS GY7035	2201830	10
Color: black, similar to RAL 9005	EH 70 F-C DS/ABS BK9005	2201831	10
<b>Housing cover</b> , closed, width 70 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 70 F-C CS/ABS GY7035	2201836	10
Color: black, similar to RAL 9005	EH 70 F-C CS/ABS BK9005	2201837	10

**Electronics housing of width 90**

Description	Type	Order No.	Pcs. / Pkt.
<b>Lower housing part</b> with vents and base latch for DIN rail mounting, width 90 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 90 F-F-B/ABS GY7035	2200663	10
Color: black, similar to RAL 9005	EH 90 F-F-B/ABS BK9005	2200664	10
<b>Housing cover</b> for PCB connection on one side, width 90 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 90 F-C SS/ABS GY7035	2201282	10
Color: black, similar to RAL 9005	EH 90 F-C SS/ABS BK9005	2201388	10
<b>Housing cover</b> for PCB connection on two sides, width 90 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 90 F-C DS/ABS GY7035	2201778	10
Color: black, similar to RAL 9005	EH 90 F-C DS/ABS BK9005	2201779	10
<b>Housing cover</b> , closed, width 90 mm			
Material: ABS			
Color: light gray, similar to RAL 7035	EH 90 F-C CS/ABS GY7035	2201777	10
Color: black, similar to RAL 9005	EH 90 F-C CS/ABS BK9005	2201776	10

**Accessories**

Description	Type	Order No.	Pcs. / Pkt.
<b>Filler plug</b> for unoccupied terminal points, width 22.5 mm			
Suitable for <b>EH 45 F</b> , <b>EH 67,5 F</b> and <b>EH 90 F</b>			
Color: light gray, similar to RAL 7035	EH 22,5 F-FP/ABS GY7035	2201843	50
Color: black, similar to RAL 9005	EH 22,5 F-FP/ABS BK9005	2201842	50
<b>Filler plug</b> for unoccupied terminal points, width 17.5 mm			
Suitable for <b>EH 35 F</b> , <b>EH 52,5 F</b> and <b>EH 70 F</b>			
Color: light gray, similar to RAL 7035	EH 17,5 F-FP/ABS GY7035	2201840	50
Color: black, similar to RAL 9005	EH 17,5 F-FP/ABS BK9005	2201841	50

## 4 Material

**Housing type**

Material ABS

Flammability rating according to UL 94

HB

## 5 External dimensions

### 5.1 Lower housing part with housing cover

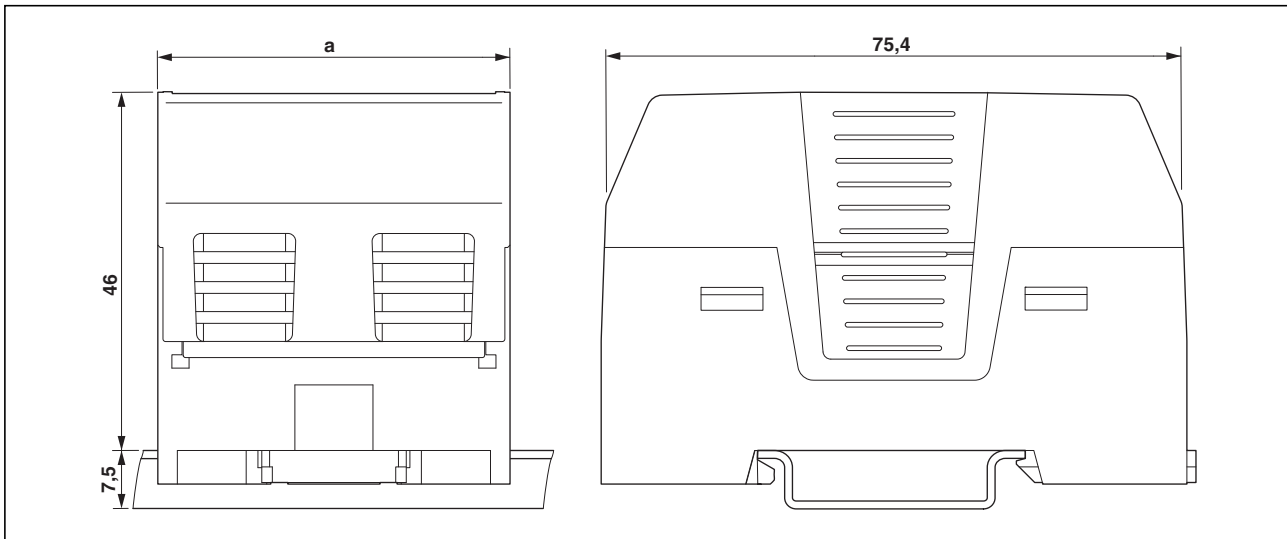


Figure 3 External dimensions of lower housing part with housing cover

#### Dimensions for a

EH 22,5 F	22.7 mm
EH 35 F	35.7 mm
EH 45 F	45.2 mm
EH 52,5 F	52.7 mm
EH 67,5 F	67.7 mm
EH 70 F	70.2 mm
EH 90 F	90.2 mm

## 5.2 Housing cover (breakouts and labeling field)

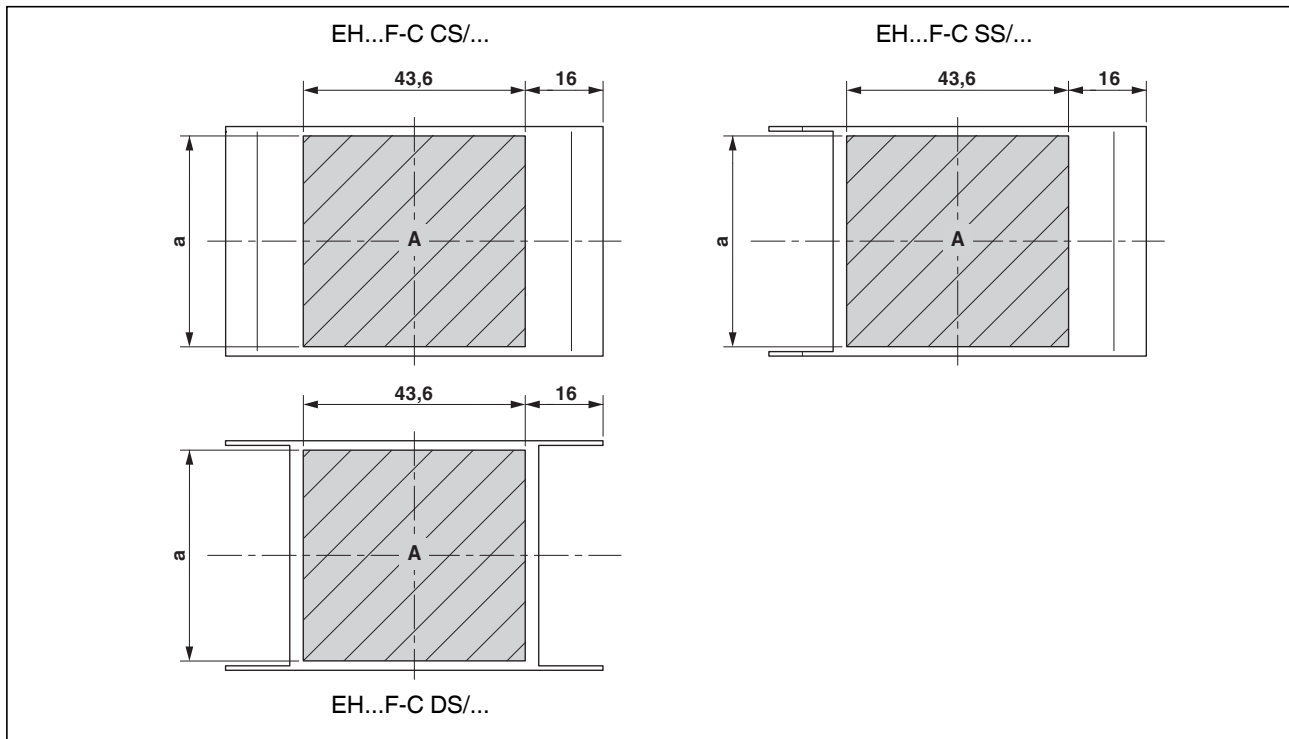


Figure 4 Maximum useable area (A) for breakouts or labels

### Dimensions for a

EH 22,5 F	18.9 mm
EH 35 F	31.4 mm
EH 45 F	41.4 mm
EH 52,5 F	48.9 mm
EH 67,5 F	63.9 mm
EH 70 F	66.4 mm
EH 90 F	86.4 mm



## 6 PCB arrangement

### 6.1 PCB, horizontal, L1 – L3

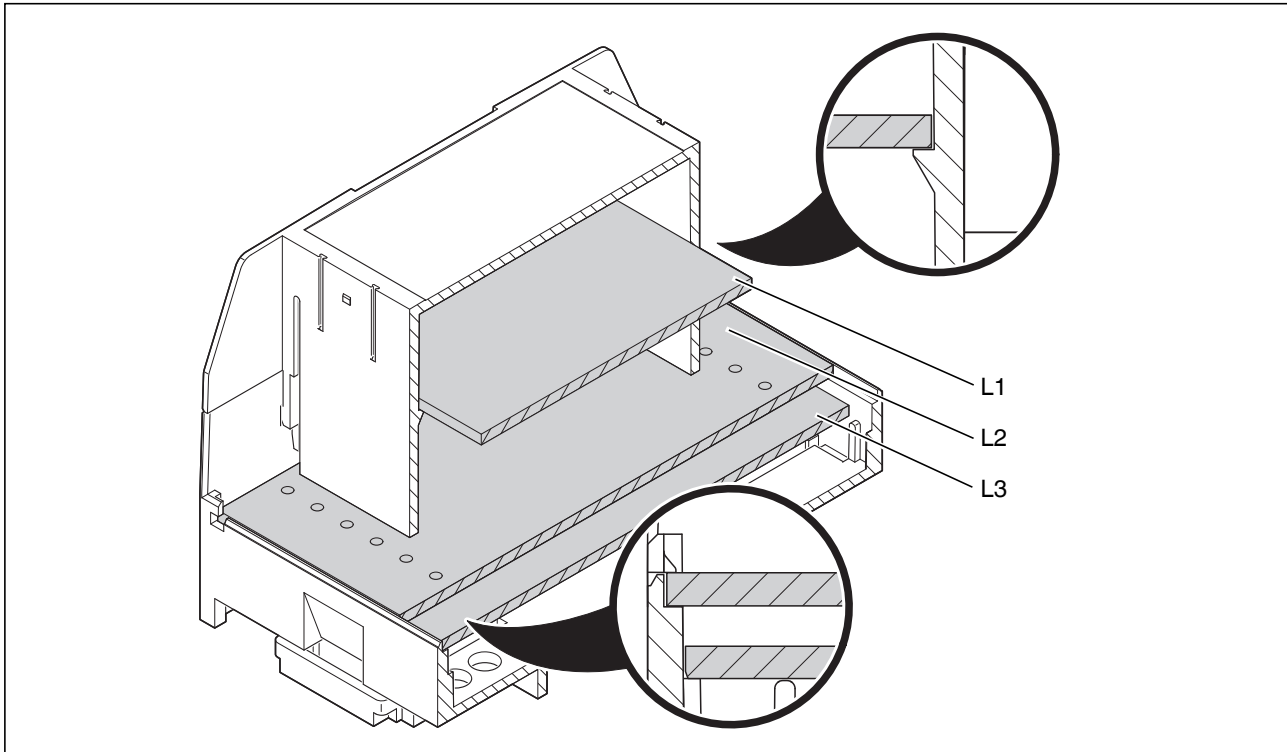


Figure 5 Horizontal installation options for the PCB

### 6.2 Inner dimensions with L1 – L3

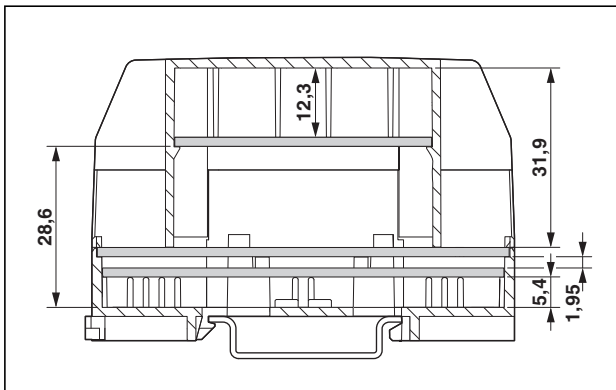


Figure 6 Horizontal installation of the PCB

## 7 PCBs, dimensional drawings

### 7.1 PCB dimensions, horizontal, L1 – L3

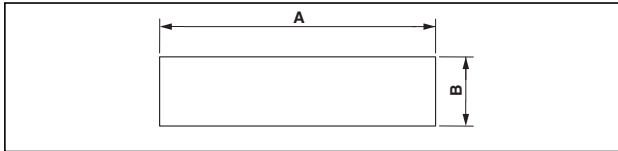


Figure 7 Dimensional drawing of horizontal PCB

	Dimensions for	A	B
EH 22,5 F	PCB L1	45.6 mm	18.3 mm
	PCB L2 <sup>*</sup>	73.1 mm	18.5 mm
	PCB L3 <sup>†</sup>	71.0 mm	18.5 mm
EH 35 F	PCB L1	45.6 mm	30.7 mm
	PCB L2 <sup>*</sup>	73.1 mm	31.0 mm
	PCB L3 <sup>†</sup>	71.0 mm	31.0 mm
EH 45 F	PCB L1	45.6 mm	40.7 mm
	PCB L2 <sup>*</sup>	73.1 mm	41.0 mm
	PCB L3 <sup>†</sup>	71.0 mm	41.0 mm
EH 52,5 F	PCB L1	45.6 mm	48.2 mm
	PCB L2 <sup>*</sup>	73.1 mm	48.5 mm
	PCB L3 <sup>†</sup>	71.0 mm	48.5 mm
EH 67,5 F	PCB L1	45.6 mm	63.2 mm
	PCB L2 <sup>*</sup>	73.2 mm	63.5 mm
	PCB L3 <sup>†</sup>	71.0 mm	63.5 mm
EH 70 F	PCB L1	45.6 mm	65.7 mm
	PCB L2 <sup>*</sup>	73.2 mm	66.0 mm
	PCB L3 <sup>†</sup>	71.0 mm	66.0 mm
EH 90 F	PCB L1	45.6 mm	85.7 mm
	PCB L2 <sup>*</sup>	73.2 mm	86.0 mm
	PCB L3 <sup>†</sup>	71.0 mm	86.0 mm

<sup>\*</sup> for connection technology MKDS and PST

<sup>†</sup> for connection technology MKKDSH, MSTBV, MCV and PST

### 7.2 Connection technology with housing cover DS

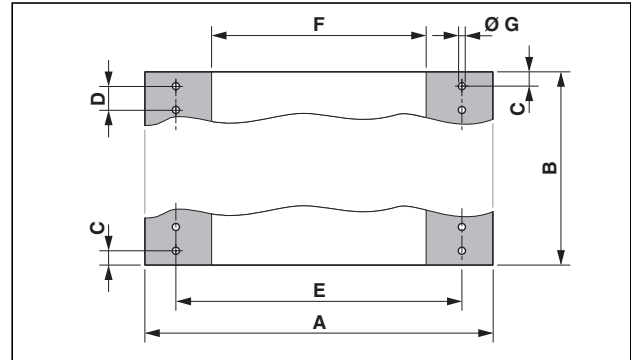


Figure 8 Connection technology with housing cover DS (top side)

Connection technology for plug	D	E	F	G
MKDS 3/...	5.08	60.80	43.6	1.4
MKKDSH 3/...	5	52.90		1.3
MSTBV 2,5 (5) MVSTBW (5)		63.35		1.4
MSTBV 2,5 (5,08) MVSTBW (5,08)		63.35		1.4
MSTBV 2,5 (5,08) MSTB (5,08)	5.08	58.00		1.4
MSTBV 2,5 (5,08) FKCT (5,08)		62.20		1.4
PST 1,3/...-5,0	5	55.50	43.6	1.5
MCV 1,3/...-G-3,81	3.81	59.30		1.4

EH...	22,5 F	35 F	45 F	52,5 F	67,5 F	70 F	90 F
Connection technology for plug	C	C	C	C	C	C	C
MKDS 3/...	1.63	2.80	2.72	3.93	3.81	2.52	4.90
MKKDSH 3/...	1.75	3.00	3.00	4.25	4.25	3.00	5.50
MSTBV 2,5 (5) MVSTBW (5)	1.63	2.80	2.72	3.93	3.81	2.52	4.90
MSTBV 2,5 (5,08) MVSTBW (5,08)							
MSTBV 2,5 (5,08) MSTB (5,08)							
MSTBV 2,5 (5,08) FKCT (5,08)	1.75	3.00	3.00	4.25	4.25	5.50	5.50
PST 1,3/...-5,0	1.63	5	3.355	3.295	2.48	3.83	4.205
MCV 1,3/...-G-3,81	1.63	5	3.355	3.295	2.48	3.83	4.205

\* Maximum no. of pos.

**7.3 Connection technology with housing cover SS**

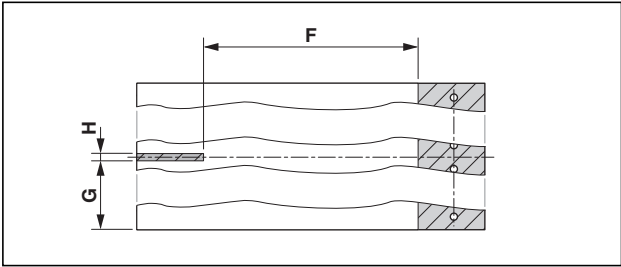


Figure 9 Connection technology with housing cover SS (top side)

**7.4 Connection technology with housing cover CS**

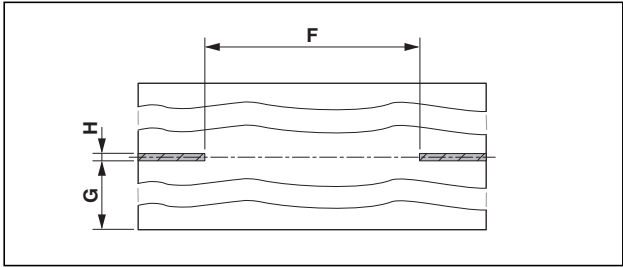


Figure 10 Connection technology with housing cover CS (top side)

	F	G	H
EH 22,5 F	43.6 mm	–	–
EH 35 F	43.6 mm	14.80 mm	1.4 mm
EH 45 F	43.6 mm	19.50 mm	2.0 mm
EH 52,5 F	43.6 mm	23.30 mm	1.9 mm
EH 67,5 F	43.6 mm	30.75 mm	2.0 mm
EH 70 F	43.6 mm	32.00 mm	2.0 mm
EH 90 F	43.6 mm	42.00 mm	2.0 mm

**7.5 Locked areas, lower side**

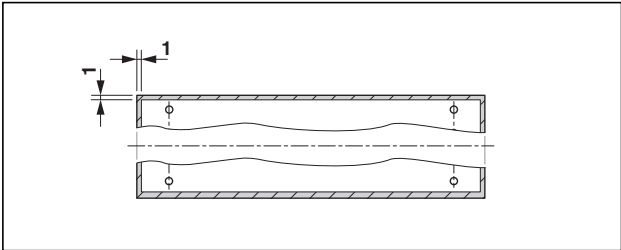
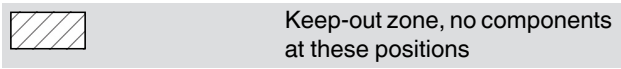


Figure 11 Lower side for all PCBs (locked areas)



## 8 Connection technology

H = Horizontal Number of positions		GN = green BK = Black GY7035 = Light gray		PCB connection technology					
				PCB terminal block		Header			
						Pitch 5.08	Pitch 5	Pitch 5	Pitch 5
				MKDS 3/...	MKKDSH 3/...	PST 1,3/...	MSTBV 2.5/...	MSTBV 2.5/...	MCV 1,5/...
				See section		See section			
		8.1      8.4		8.5		8.2		8.3      8.6	
EH 22,5 F									
H	4	GN		1712805	1721045		1753479	1758034	
		BK		1729069		1933202		1758801	
	5	GN							1803455
EH 35 F									
H	6	GN		1701144	1721045		1753518	1758050	
		BK				1933228	1755286	1758788	
		GY7035						1703841	
	8	GN							1803484
EH 45 F									
H	8	GN		1712708	1703283		1753550	1758076	
		BK		1871762		1933244	1755309	1759431	
		GY7035							
	10	GN							1803507
EH 52,5 F									
H	9	GN		1707331			1753576	1758089	
		BK				1933257		1820742	
	12	GN							1803523
EH 67,5 F									
H	12	GN		1714308			1753631	1758115	
		BK				1933286			
	16	GN							1803565
EH 70 F									
H	13	GN					1753657	1758128	
		BK				1933299			
	16	GN							1803565
EH 90 F									
H	17	GN					1753738	1758160	
		BK				1935556			



Other versions with different numbers of positions or in colors such as light gray or black can be provided on request.

### 8.1 PCB terminal block base, soldered, pitch 5.08 for PCB L2

Assembly: soldering

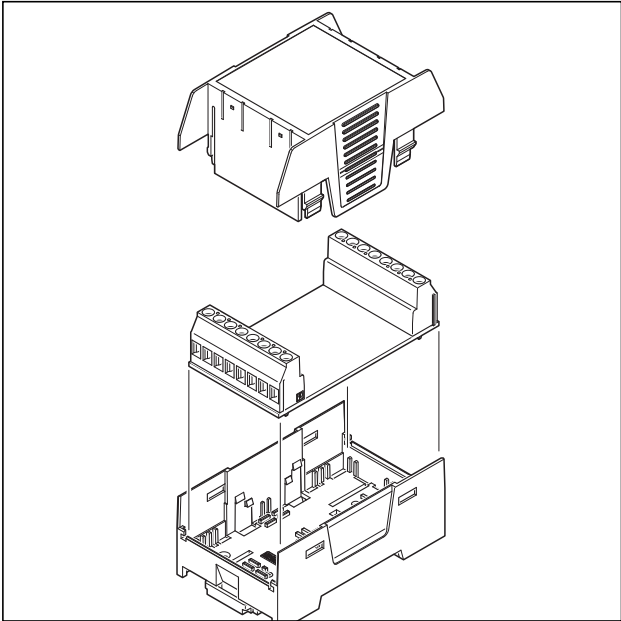


Figure 12 PCB terminal block base (example, 1712708)

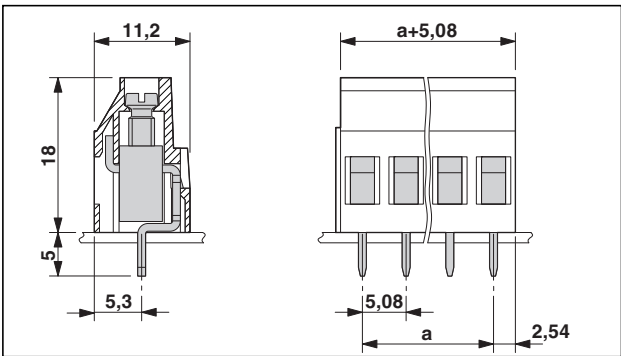


Figure 13 Dimensions of MKDS 3/...-5,08

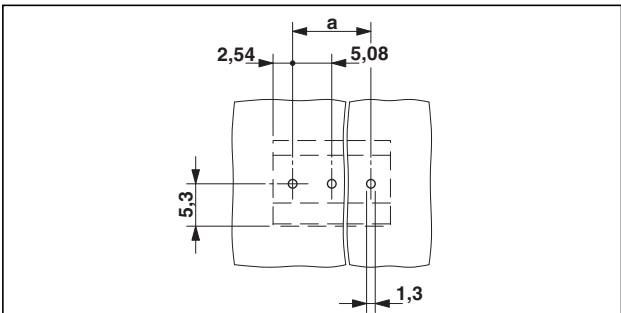


Figure 14 Drilling diagram of MKDS 3/...-5,08

#### MKDS 3/...-5,08

Dimensions	
Length	11.2 mm
Height	18 mm
Pitch	5.08 mm
Pin dimensions	0.9 mm x 0.9 mm
Hole diameter	1.3 mm

Product		Dimension a	No. of pos.
MKDS 3/ 4-5,08	1712805	15.24 mm	4
MKDS 3/ 4-5,08 BK	1729069	15.24 mm	4
MKDS 3/ 6-5,08	1701144	25.40 mm	6
MKDS 3/ 8-5,08	1712708	35.56 mm	8
MKDS 3/ 8-5,08 BK	1871762	35.56 mm	8
MKDS 3/ 9-5,08	1707331	40.64 mm	9
MKDS 3/ 12-5,08	1714308	55.88 mm	12

Technical data	
Insulation material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	400 V
Rated voltage (II/2)	630 V
Connection acc. to standard	EN-VDE
Nominal current $I_N$	24 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current, with a 4 mm <sup>2</sup> conductor cross section	28 A
Insulation material	PA
Flammability rating according to UL 94	V0
Solder pin surface	Sn
Internal cylindrical gauge	A3
Stripping length	8 mm
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm

## 8.2 Plug-in base strip, pitch 5 for PCB L3

Contact surface: tin. Assembly: soldering

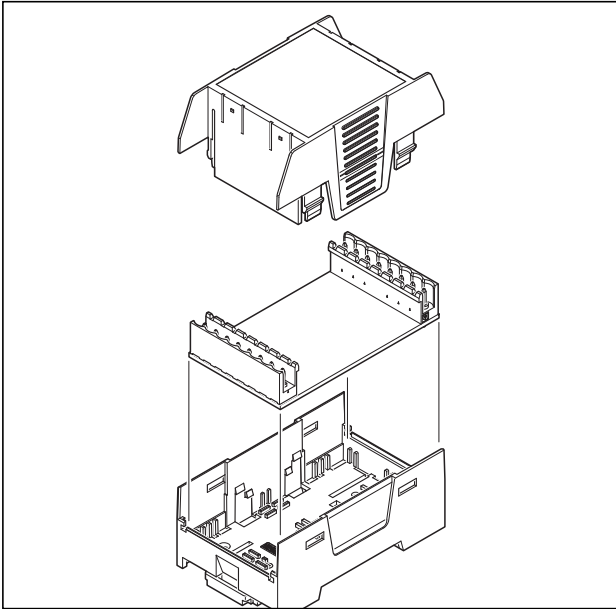


Figure 15 Base strip (example, 1753550)

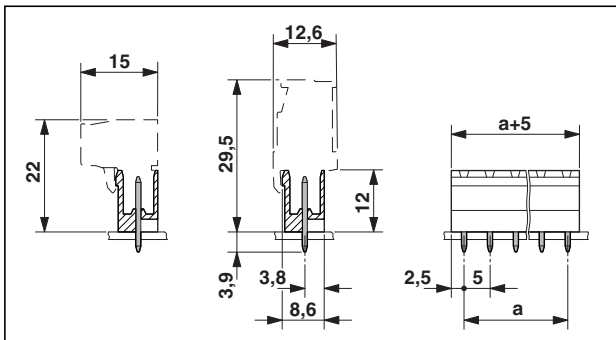


Figure 16 Dimensions of MSTBV 2,5/...-G

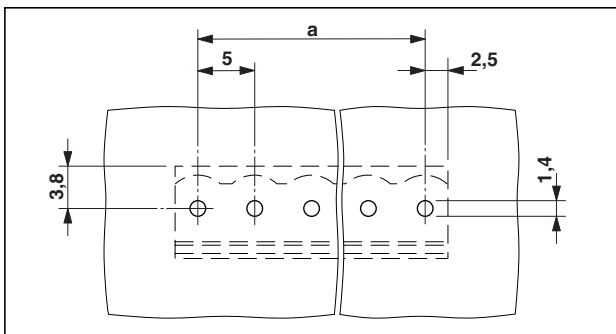


Figure 17 Drilling diagram of MSTBV 2,5/...-G

### MSTBV 2,5/...-G

#### Dimensions

Length	8.6 mm
Pitch	5 mm
Pin dimensions	1 mm x 1 mm
Hole diameter	1.4 mm

Product		Dimension a	No. of pos.
MSTBV 2,5/ 4-G	1753479	15 mm	4
MSTBV 2,5/ 6-G	1753518	25 mm	6
MSTBV 2,5/ 6-G BK	1755286	25 mm	6
MSTBV 2,5/ 8-G	1753550	35 mm	8
MSTBV 2,5/ 8-G BK	1755309	35 mm	8
MSTBV 2,5/ 9-G	1753576	40 mm	9
MSTBV 2,5/12-G	1753631	55 mm	12
MSTBV 2,5/13-G	1753657	60 mm	13
MSTBV 2,5/17-G	1753738	80 mm	17

#### Technical data

Insulation material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection acc. to standard	EN-VDE
Nominal current $I_N$	12 A
Maximum load current	12 A
Insulation material	PA
Flammability rating according to UL 94	V0

#### Suitable connectors

PCB connector with screw connection

MVSTBW 2,5/...-ST (pitch 5)

MVSTBW 2,5/...-STEH (pitch 5)

PCB connector with spring connection

FKCT 2,5/...-ST (pitch 5)

#### Accessories

Coding tab for header pin	MSTB-BL, 1755477
Coding section	CR-MSTB, 1734401
Coding profile	CP-MSTB, 1734634

### 8.3 Plug-in base strip, pitch 5.08 for PCB L3

Contact surface: tin. Assembly: soldering

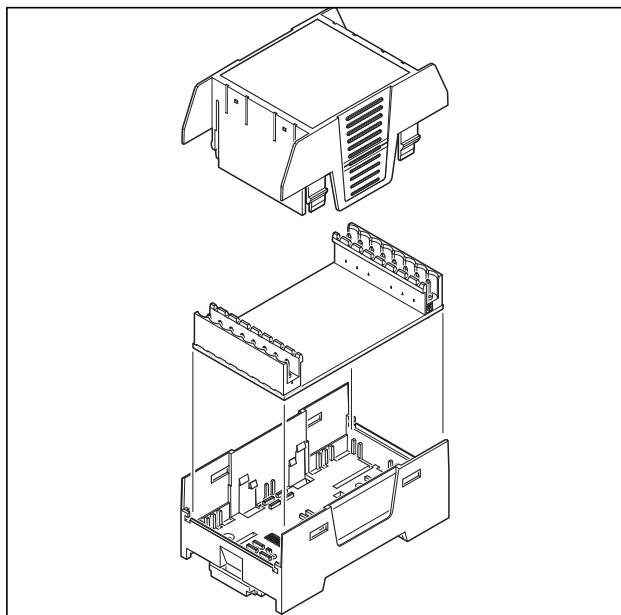


Figure 18 Base strip (example, 1758076)

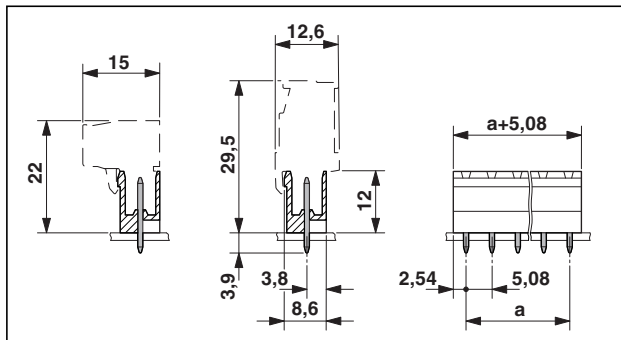


Figure 19 Dimensions of MSTBV 2,5/...-G-5,08

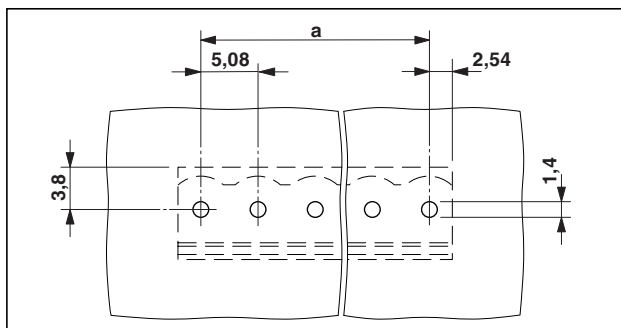


Figure 20 Drilling diagram of MSTBV 2,5/...-G-5,08

### MSTBV 2,5/...-G-5,08

#### Dimensions

Length	8.6 mm
Pitch	5.08 mm
Pin dimensions	1 mm x 1 mm
Hole diameter	1.4 mm

#### Product

Product	Dimension a	No. of pos.
MSTBV 2,5/ 4-G-5,08	1758034	15.24 mm 4
MSTBV 2,5/ 4-G-5,08 BK	1758801	15.24 mm 4
MSTBV 2,5/ 6-G-5,08	1758050	25.40 mm 6
MSTBV 2,5/ 6-G-5,08 BK	1758788	25.40 mm 6
MSTBV 2,5/ 6-G-5,08 GY7035	1703841	25.40 mm 6
MSTBV 2,5/ 8-G-5,08	1758076	35.56 mm 8
MSTBV 2,5/ 8-G-5,08 BK	1759431	35.56 mm 8
MSTBV 2,5/ 9-G-5,08	1758089	40.64 mm 9
MSTBV 2,5/ 9-G-5,08 BK	1820742	40.64 mm 9
MSTBV 2,5/ 12-G-5,08	1758115	55.88 mm 12
MSTBV 2,5/ 13-G-5,08	1758128	60.96 mm 13
MSTBV 2,5/ 17-G-5,08	1758160	81.28 mm 17

#### Technical data

Insulation material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection acc. to standard	EN-VDE
Nominal current $I_N$	12 A
Maximum load current	12 A
Insulation material	PA
Flammability rating acc. to UL 94	V0

#### Suitable connectors

PCB connector with screw connection

MVSTBW 2,5/...-ST-5,08

MVSTBW 2,5/...-STE-5,08

PCB connector with spring connection

FKCT 2,5/...-ST-5,08

#### Accessories

Coding tab for header pin	MSTB-BL, 1755477
Coding section	CR-MSTB, 1734401
Coding profile	CP-MSTB, 1734634

#### 8.4 PCB terminal block base, soldered, pitch 5 for PCB L3

Assembly: soldering

Several PCB terminal block bases can be mounted in rows onto the PCB on each housing side.

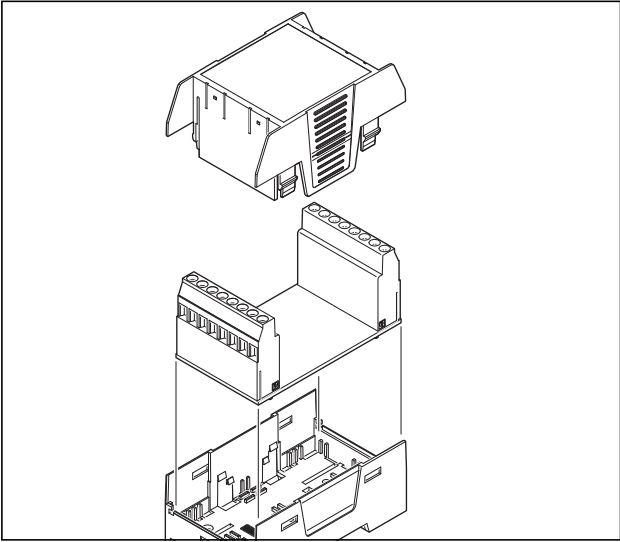


Figure 21 PCB terminal block base (example, 1703283)

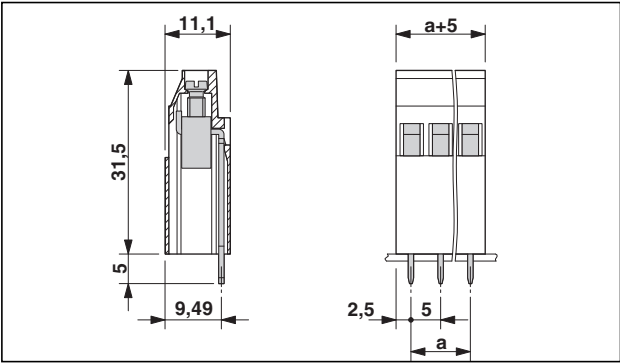


Figure 22 Dimensions of MKKDSH 3/...

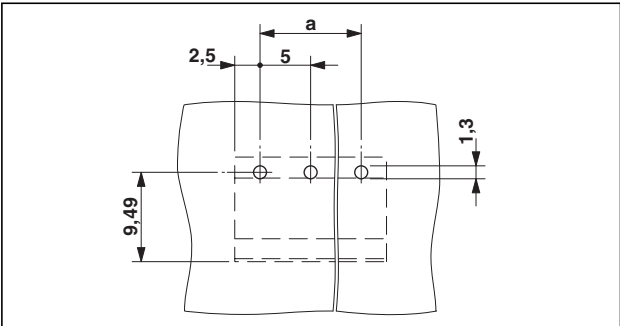


Figure 23 Drilling diagram of MKKDSH 3/...

#### MKKDSH 3/...

Dimensions	
Length	11.1 mm
Pitch	5 mm
Number of positions	2
Pin dimensions	0.9 mm x 0.9 mm
Hole diameter	1.3 mm

Product		Dimension a	No. of pos.
MKKDSH 3/ 2	1721045	5 mm	2
MKKDSH 3/ 8	1703283	35 mm	8

Technical data	
Insulation material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	400 V
Rated voltage (II/2)	630 V
Connection acc. to standard	EN-VDE
Nominal current $I_N$	24 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current, with a 4 mm <sup>2</sup> conductor cross section	24 A
Insulation material	PA
Flammability rating according to UL 94	V0
Solder pin surface	Sn
Internal cylindrical gauge	A3
Stripping length	7 mm
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm



8.5 Pin strip, pitch 5 for PCB L3

Contact surface: tin. Assembly: soldering

Voltage and current depend on the installed plug terminal. The value of the weaker component always applies. The pin strip is made of high-temperature proof plastic. This makes it suitable for the reflow process.

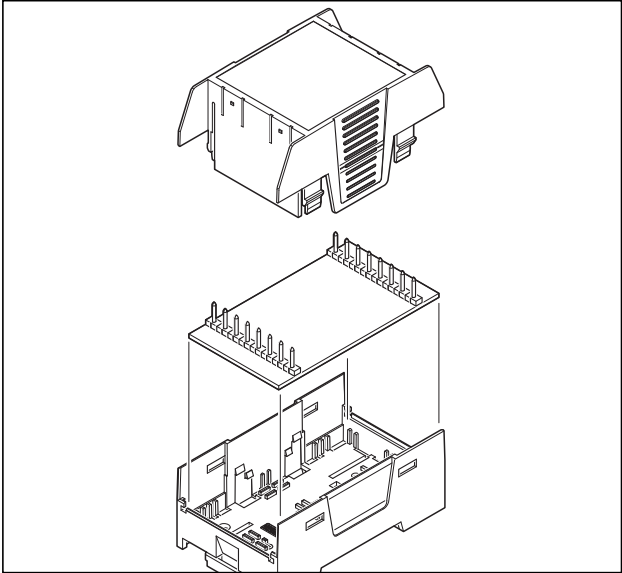


Figure 24 Base strip (example, 1933244)

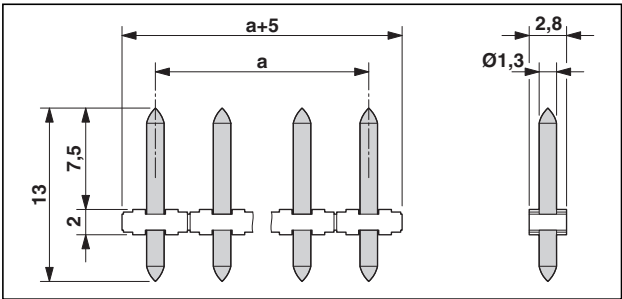


Figure 25 Dimensions PST 1,3/ ...-5,0

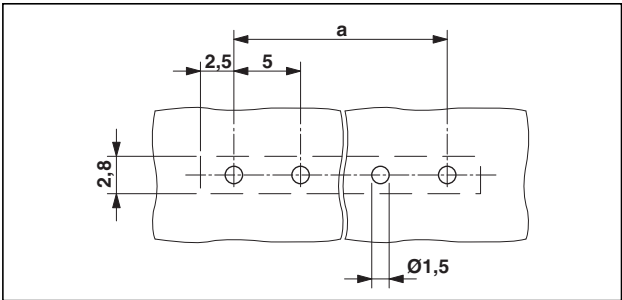


Figure 26 Drilling diagram PST 1,3/ ...-5,0

PST 1,3/...-5,0

Dimensions	
Length	2.8 mm
Pitch	5 mm
Pin dimensions	1.3 mm
Hole diameter	1.5 mm

Product		Dimen- sion a	No. of pos.
PST 1,3/ 4-5,0	1933202	15 mm	4
PST 1,3/ 6-5,0	1933228	25 mm	6
PST 1,3/ 8-5,0	1933244	35 mm	8
PST 1,3/ 9-5,0	1933257	40 mm	9
PST 1,3/12-5,0	1933286	55 mm	12
PST 1,3/13-5,0	1933299	60 mm	13
PST 1,3/17-5,0	1935556	80 mm	17

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/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection acc. to standard	EN-VDE
Nominal current I <sub>N</sub>	12 A <sup>*</sup>
Maximum load current	12 A <sup>*</sup>
Insulation material	PA
Flammability rating according to UL 94	V0

<sup>\*</sup> Depends on the connector used; observe derating

Suitable connectors
PCB connection terminal block with screw connection
PT 1,5/... (e.g., 1755606)

## 8.6 Base strip, pitch 5.08 for PCB L3

Contact surface: tin. Assembly: soldering

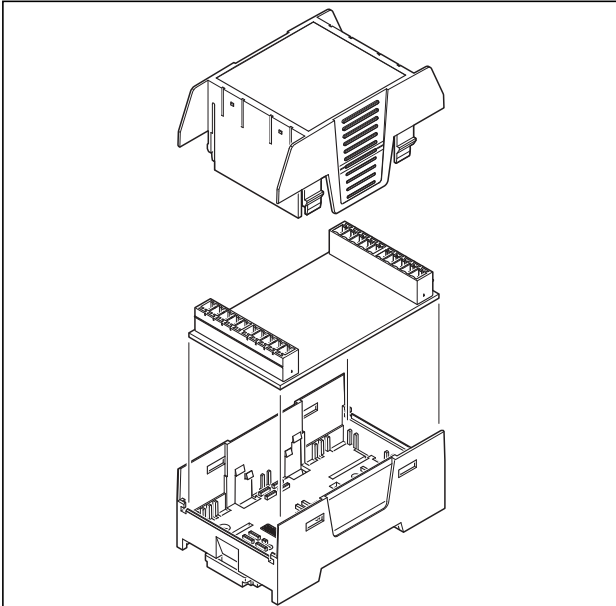


Figure 27 Base strip (example, 1803507)

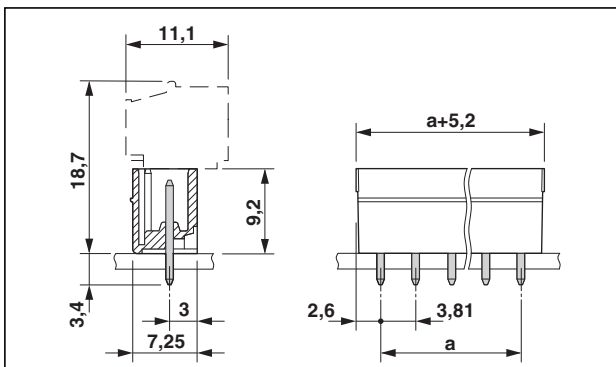


Figure 28 Dimensions PST 1,3/ ...-5,0

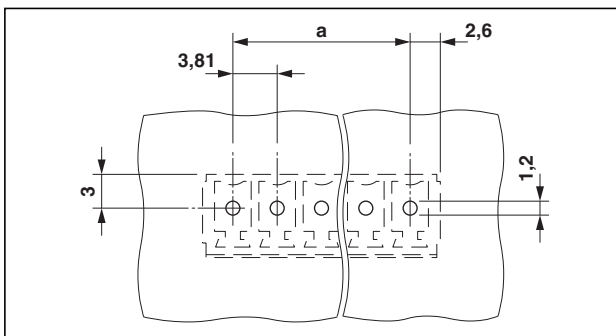


Figure 29 Drilling diagram PST 1,3/ ...-5,0

## MCV 1,3/...-G-3,81

### Dimensions

Length	7.25 mm
Pitch	3.81 mm
Pin dimensions	0.8 mm x 0.8 mm
Hole diameter	1.2 mm

### Product

Product	Dimen- sion a	No. of pos.
MCV 1,5/ 5-G-3,81	1803455	15.24 mm 5
MCV 1,5/ 8-G-3,81	1803484	26.67 mm 8
MCV 1,5/10-G-3,81	1803507	34.29 mm 10
MCV 1,5/12-G-3,81	1803523	41.91 mm 12
MCV 1,5/16-G-3,81	1803565	57.15 mm 13

### Technical data

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/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	250 V
Connection acc. to standard	EN-VDE
Nominal current $I_N$	8 A*
Maximum load current	8 A*
Insulation material	PBT
Flammability rating according to UL 94	V0

\* Observe derating

### Suitable connectors

PCB connector with screw connection

MCVR 1,5/... (e.g., 1827156)

PCB connector with spring connection

FMC 1,5/... (e.g., 1745920)

### Accessories

Marker card SK 3,81/2,8:FORTL.ZAHLEN, 0804109

Coding profile CP-MSTB, 1734634

## 9 Mounting the housing

### 9.1 Mounting on a DIN rail

The housing is supplied with a base latch for DIN rail mounting as standard.

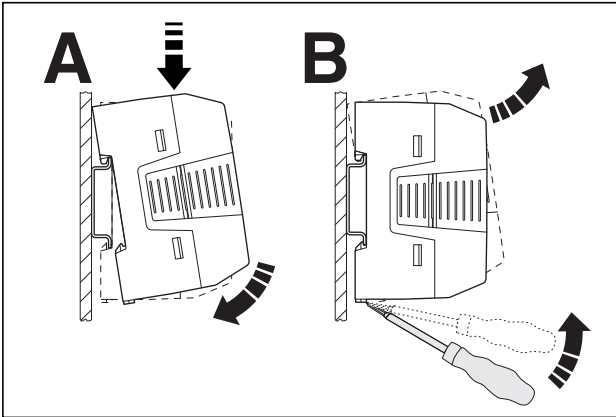


Figure 30 Snapping the housing onto the DIN rail (A), and removing it (B)

#### Mounting

- Place the device onto a grounded 35 mm DIN rail from above so that the upper housing slot hooks onto the top edge of the DIN rail (A).
- Press the device carefully at the top of the housing towards the mounting surface.
- Once the snap-on foot has audibly snapped onto the DIN rail, check whether it is securely attached.

#### Removal

- Use a suitable screwdriver to release the locking mechanism on the snap-on foot of the device (B).
- Hold the device at the housing cover and carefully tilt it upwards.
- Carefully lift the device off the DIN rail.

### 9.2 Mounting on a mounting surface

The housing can be supplied with a base latch for wall mounting on customer request.

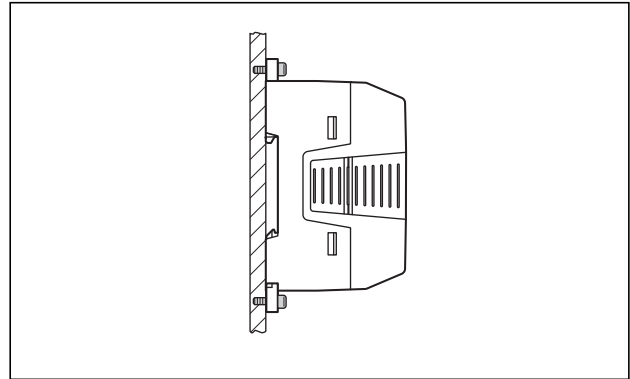


Figure 31 Wall mounting

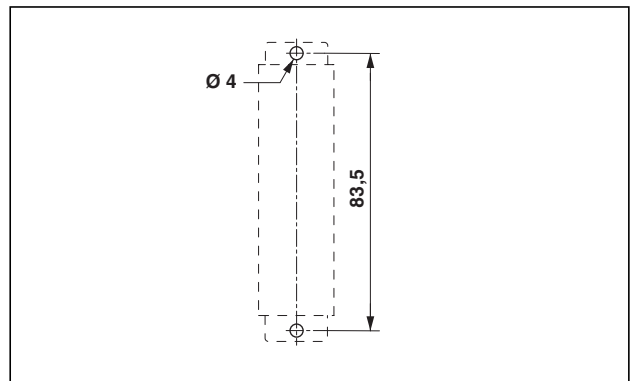


Figure 32 Drilling diagram for wall mounting

### 9.3 Mounting the housing cover

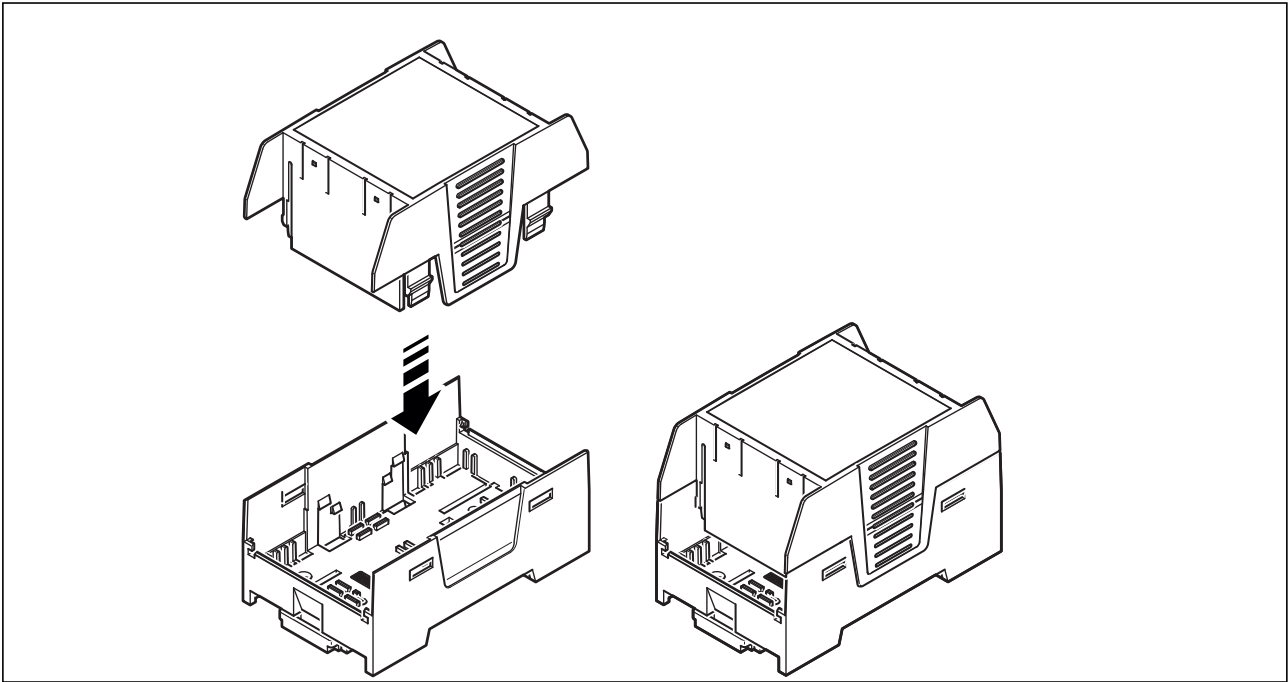


Figure 33 Snapping on the housing cover

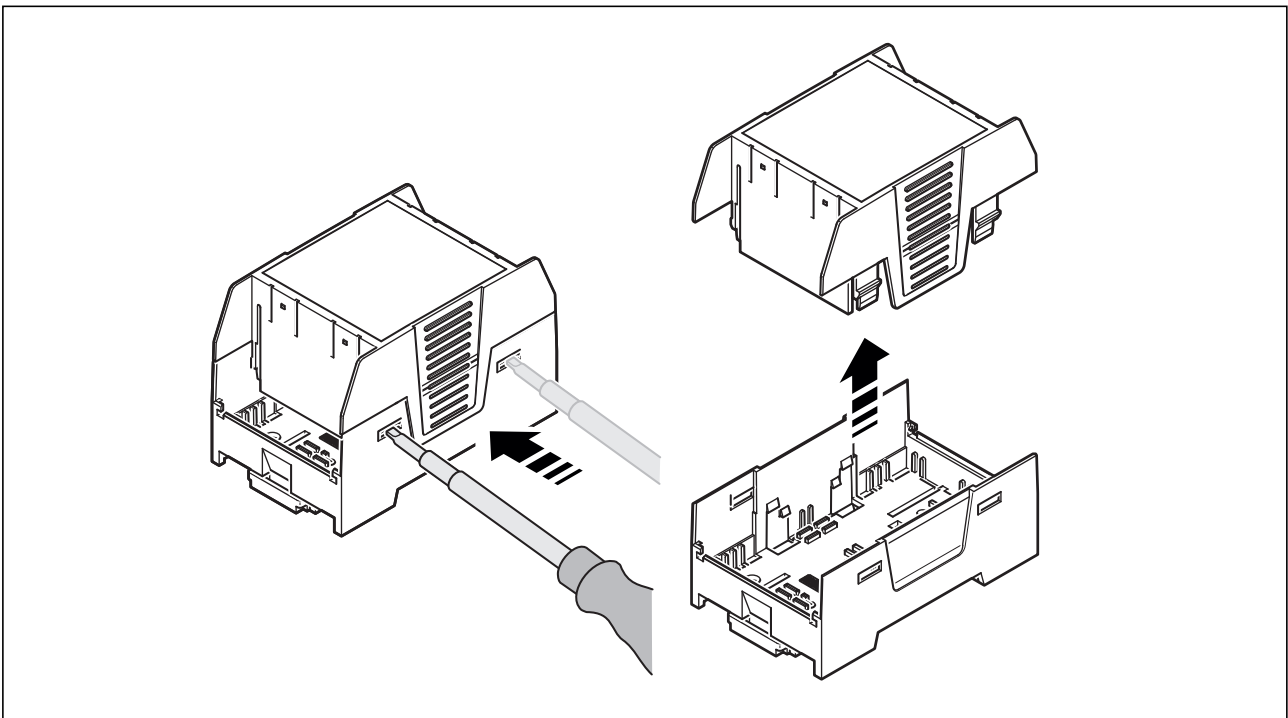


Figure 34 Releasing the housing cover

9.4 Mounting the filler plugs

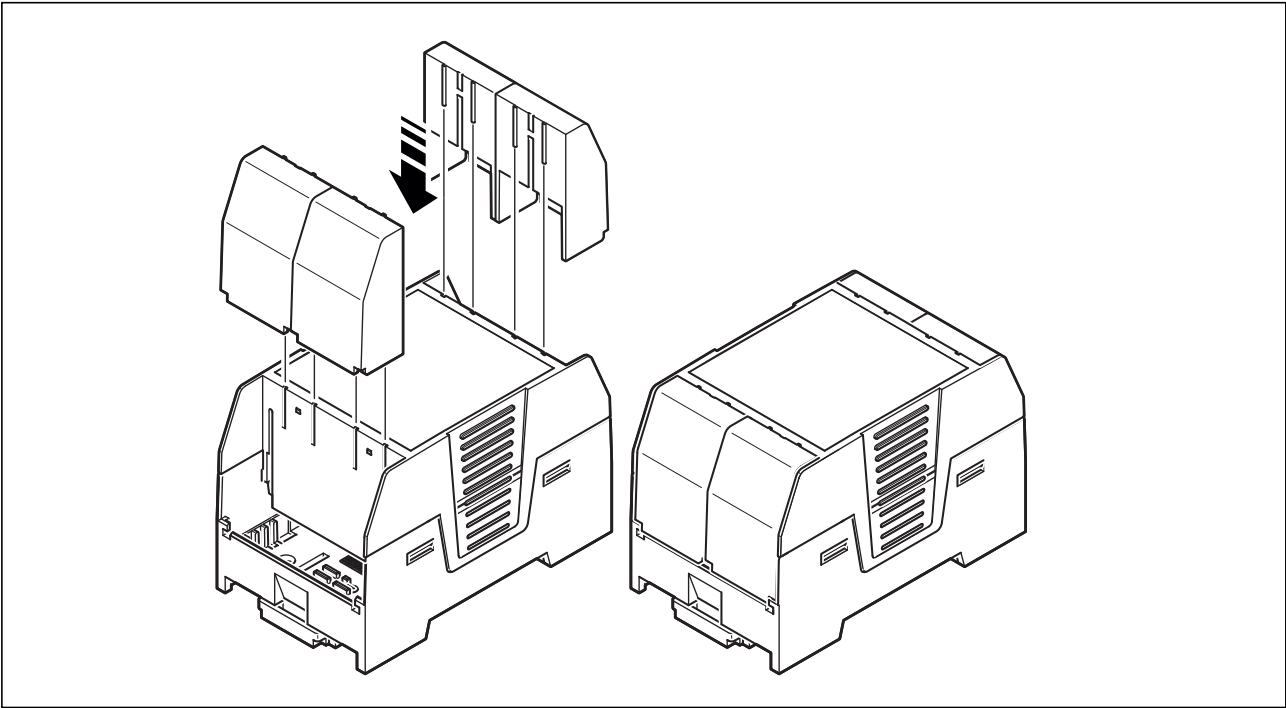


Figure 35 Mounting the filler plugs

Accessories			
Description	Type	Order No.	Pcs. / Pkt.
<b>Filler plug</b> for unoccupied terminal points, width 22.5 mm Suitable for <b>EH 45 F</b> , <b>EH 67,5 F</b> and <b>EH 90 F</b> Color: light gray, similar to RAL 7035 Color: black, similar to RAL 9005	EH 22,5 F-FP/ABS GY7035	2201843	50
	EH 22,5 F-FP/ABS BK9005	2201842	50
<b>Filler plug</b> for unoccupied terminal points, width 17.5 mm Suitable for <b>EH 35 F</b> , <b>EH 52,5 F</b> and <b>EH 70 F</b> Color: light gray, similar to RAL 7035 Color: black, similar to RAL 9005	EH 17,5 F-FP/ABS GY7035	2201840	50
	EH 17,5 F-FP/ABS BK9005	2201841	50

## Housing cover - EH 35 F-C DS/ABS GY7035 - 2201826

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Component housing, Color: gray

### Product Features

- ✓ Item is part of the EH product range
- ✓ Tool-free mounting
- ✓ Available in overall widths from 22.5 mm ... 90 mm
- ✓ Flammability class HB acc. to UL 94
- ✓ Variety of connection technologies
- ✓ Can be mounted on the DIN rail or the wall

### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	16.0 g
Custom tariff number	85472000
Country of origin	India

### Technical data

Product type	Component housing upper part
Color	gray

### Classifications

eCl@ss

eCl@ss 5.0	27180506
eCl@ss 5.1	27180506
eCl@ss 6.0	27180802
eCl@ss 8.0	27182702

## Housing cover - EH 35 F-C DS/ABS GY7035 - 2201826

### Classifications

#### ETIM

ETIM 4.0	EC001031
ETIM 5.0	EC001031

### Accessories

#### Accessories

##### Filler plug

Electronic housing - EH 17,5 F-FP/ABS BK9005 - 2201846



Component housing, Color: black

Electronic housing - EH 17,5 F-FP/ABS GY7035 - 2201847



Component housing, Color: gray

### Required add-on products

Electronic housing - EH 35 F-B/ABS BK9005 - 2201815



Component housing, Color: black

Electronic housing - EH 35 F-B/ABS GY7035 - 2201814



Component housing, Color: gray

