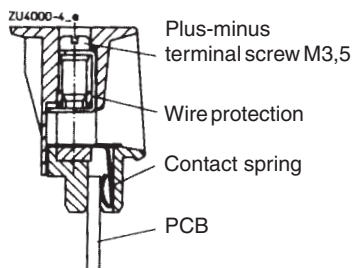


# Insulated Enclosure KO 4716

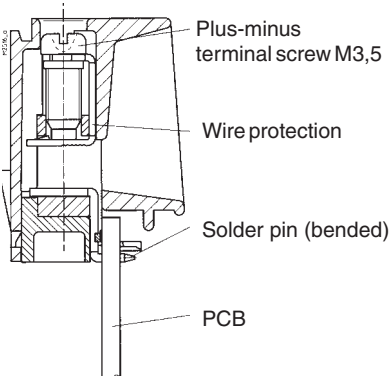
with box terminal  
for machine soldering or plug-in technology



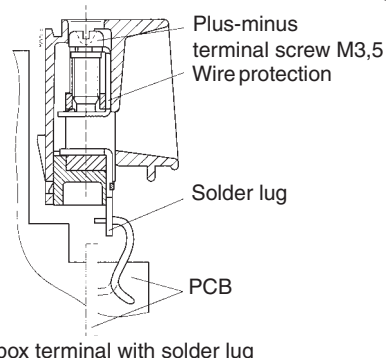
- Width 152 mm
- Max. 50 box terminal with captive plus-minus-terminal screws
- Electrical connection of PCB to terminal in machine soldering or plug-in technology
- Changeable plate as option
- Spacer for PCB coding
- Optionally with removable terminal strip for plug-in technology
- Optionally with Blanking strip



Box terminal for plug-in technology



Box terminal for machine solder technology



box terminal with solder lug

## Technische Daten

Order references: Front colour	beige	light grey RAL 7035	blue RAL 5015	Enclosure variant with
KO 4716.118.50.02	.001	.004	.007	front plate plug-in techn plate plug-in technology plate clear plug-in techn.
KO 4716.118.50.02	.002	.005	.008	
KO 4716.118.50.02	.003	.006	.009	
KO 4716.118.50.03	.004	.005	.008	front plate solder pin bended plate solder pin bended plate clear solder pin bended
KO 4716.118.50.03	.002	.006	.009	
KO 4716.118.50.03	.003	.007	.010	
KO 4716.118.50.03	.020	.023	.026	front plate soldering lug plate soldering lug plate clear soldering lug
KO 4716.118.50.03	.021	.024	.027	
KO 4716.118.50.03	.022	.025	.028	

**Outer dimensions:** 152 x 73.2 x 118,2 mm  
**Enclosure material:** PC-GF, base black, front colour see table

<b>Temperature stability:</b>	
complying with UL 746 B:	125 °C
complying with Vicat	
ISO 306	Meth. B: 148 °C
compl. with ISO 75-2	Meth. A: 138 °C Meth. B: 144 °C

**Max. permitted power dissipation:** 35 W for stand alone enclosure at normal climate 23/50-1 ISO 554  
**Specific thermal resistance:** R<sub>th</sub> = 3 K / W for stand alone enclosure

**Flame retardancy:** V-0; Plate clear = V-2  
 complying with UL 94: BH 2-30  
 complying with IEC 60 707:

**Number of terminals:** 50, < 50 auf Anfrage

**Terminal material**  
**solder technology:** CuSn verzinkt  
**plug-in technology:** CuBe verzinkt

**Max. cross section for connection:** each 1 x 4 mm<sup>2</sup> solid  
 each 1 x 2.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4  
 each 2 x 1.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4  
 10 mm

**Insulation of wires length:**

**Max. cross resistance to printed circuit board:** 10 mΩ ≈ 1 W / terminal (power dissipation)

**Max. current carrying capacity**  
 machine soldering: 16 A  
 plug-in technology: 10 A

**Wire fastening**  
 soldering and plug-in technology: captive plus-minus terminal screws M3.5  
 box-terminals with self-raising wire protection  
 terminal strip removable separately

**plug-in technology:** max. 0.8 Nm

**Connection inside:** machine solderable solder pins  
 plug-in technology: direct plug-in on PCB

**Enclosure fastener:** 1) Snap-on fastener on top hat rail EN 50 022  
 2) screw fixing with retractable clips, fastening dimensions 80 mm for 2 screws M4

**Creepage current resistance:** CTI 175 ≈ insulating material III a IEC 60 664-1

**Air gap and creepage distance:** ≥ 3.3 mm IEC 60 664-1

**Type of protection:** Enclosure IP 40 IEC 60 529  
 Terminals IP 20 IEC 60 529

contact protection complies with VBG 4  
 42 x 152 mm (on front plate)

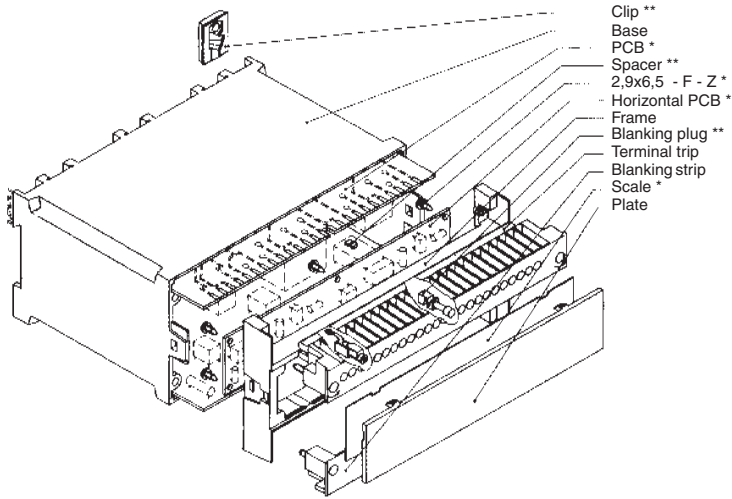
**Printed circuit board:** see printed circuit design

**Printed circuit board holder:** Guide ribs on the small side and on the enclosure bottom for 5 PCBs  
 approx. 370 g

**Net-weight:**  
**Accessories:** ET 4720-1-2: clips for screw fixing

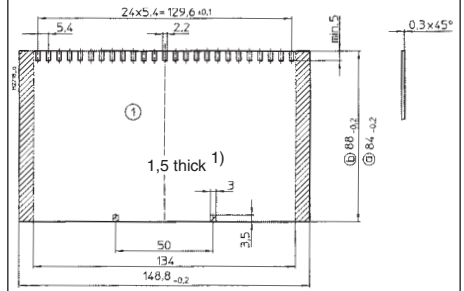
		plug-in technology				solder techn.
		clear	beige	grey	blue	clear
Spacer for PCB coding	KO 4721-8-1					
Blanking plug	KO 4721-7-	1.22				1.24
Blanking strip	KO 4713-		5.2	5.3	5.4	

## Plug-in technology



\* not included in delivery  
 \*\* see Accessories

## Printed circuit board design

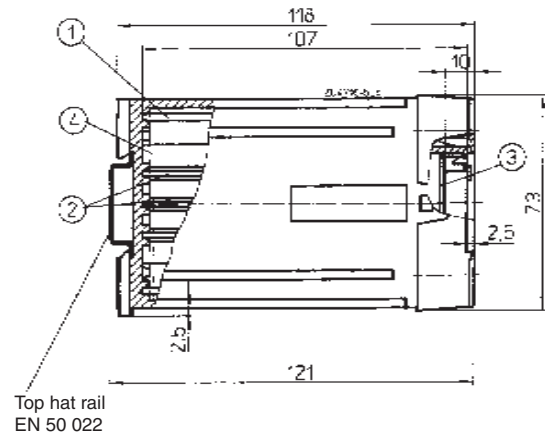
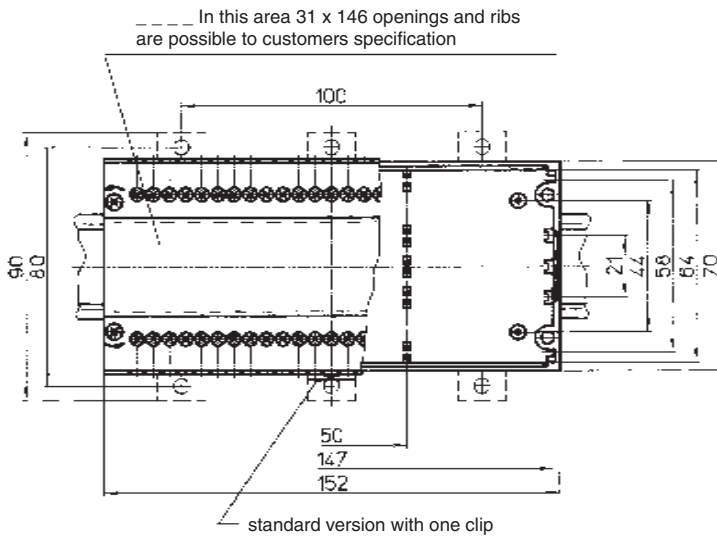


a) with basic PCB  
 b) without basic PCB

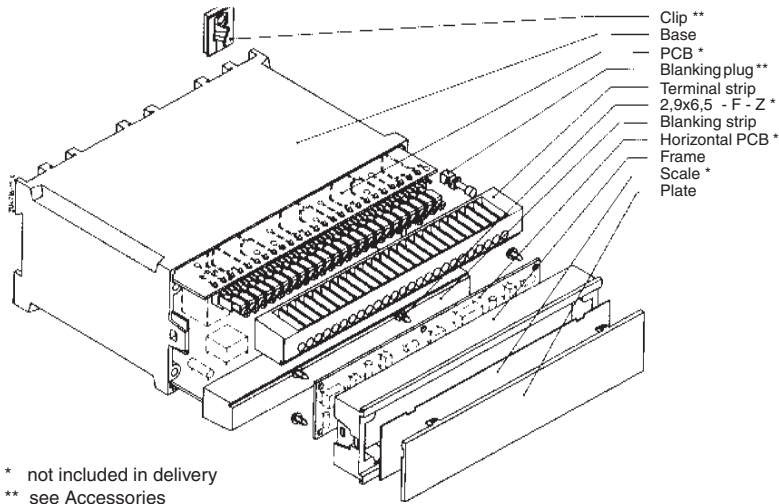
▨ Inhibited surface

1) Tolerance complying with IEC/EN 60249-2-4

## Dimensions

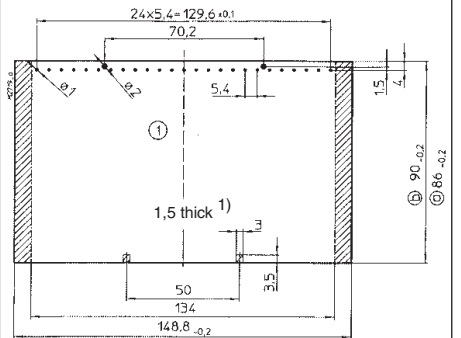


### Solder pin bended



\* not included in delivery  
 \*\* see Accessories

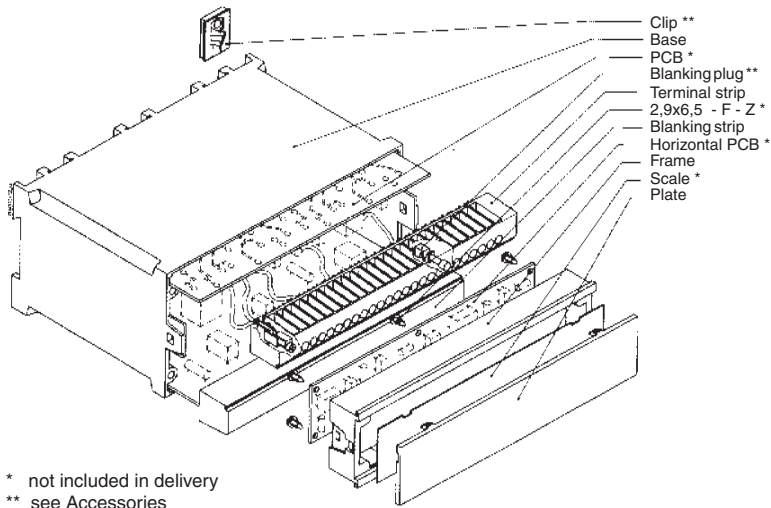
### Printed circuit board design



a with basic PCB  
 b without basic PCB

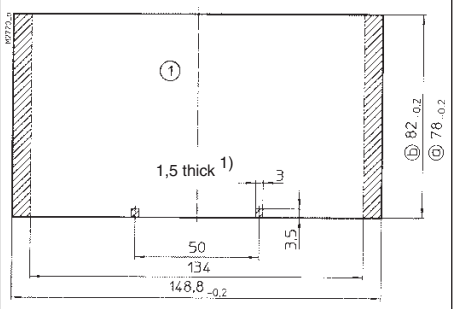
Inhibited surface  
 1) Tolerance complying with IEC/EN 60249-2-4

### Soldering lug



\* not included in delivery  
 \*\* see Accessories

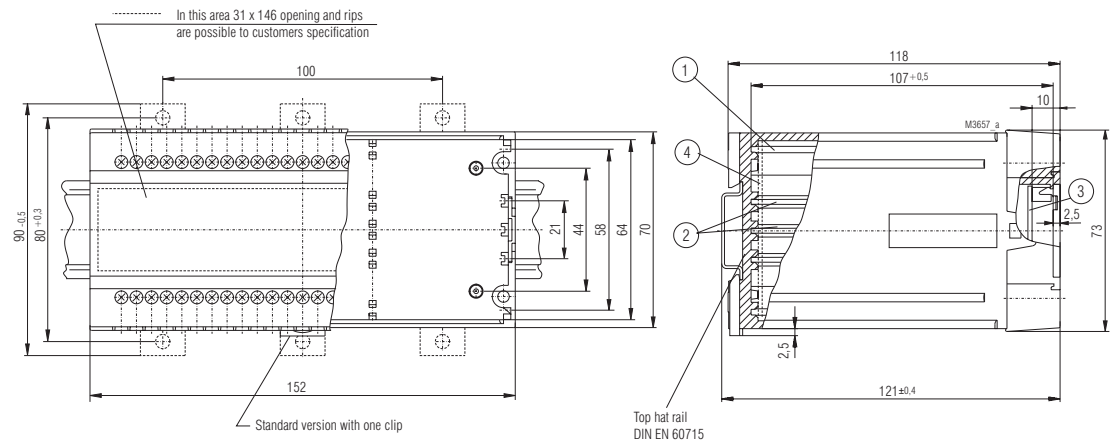
### Printed circuit board design



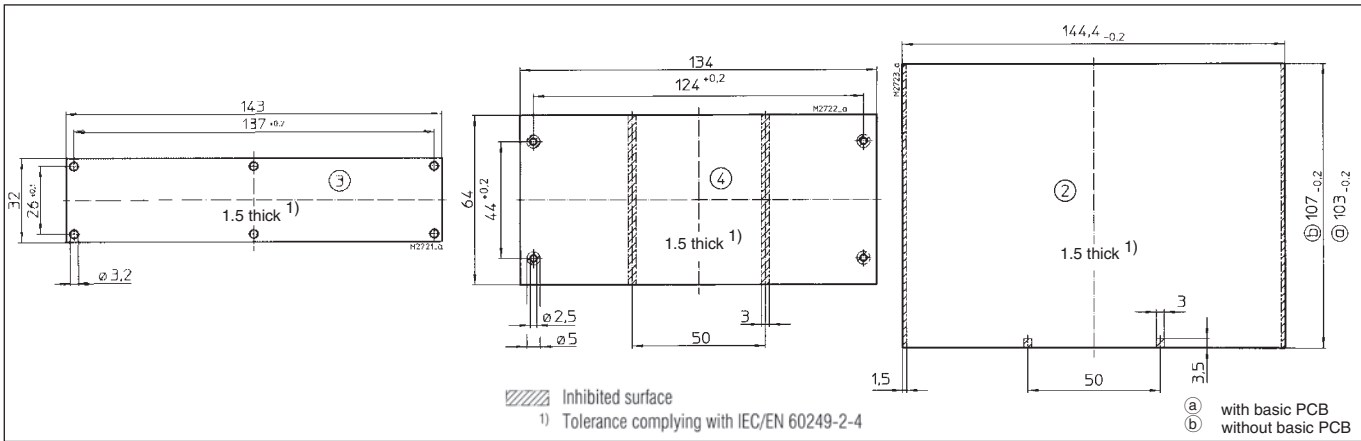
a with basic PCB  
 b without basic PCB

Inhibited surface  
 1) Tolerance complying with IEC/EN 60249-2-4

### Dimensions for soldering technology



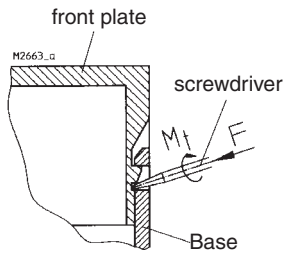
## Printed circuit board design



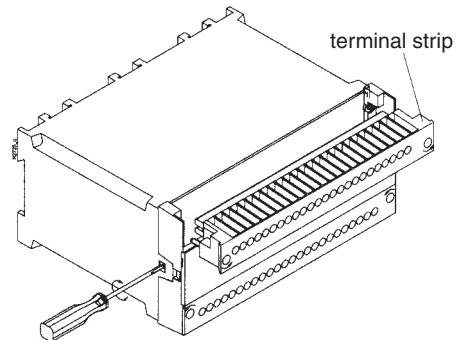
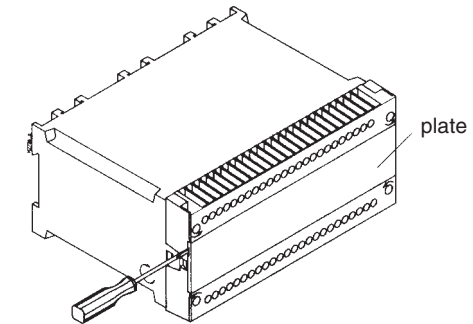
## Notes on Housing Opening

### Enclosure for plug-in technology

To remove the front plate first unscrew the terminal strips fixing screws and lift off the terminal strips.



To remove front-frame insert an 0.8 x 4.0 or 0.8 x 4.5 screwdriver into the side recess, on the hood, and turn lightly to the left or right until the snap-in lug disengages. Repeat in the opposite side.



### Enclosure for soldering technology

#### 1. Tool

- for all functions use 0.8 x 4.0 or 0.8 x 4.5 screwdriver

#### 2. Removing the frame

- Insert a screwdriver in the side recesses of the hood (underneath)
- With light pressure, turn the screwdriver to the right or left
- The snap-in lug of the frame disengages
- Repeat disengaging process on opposite side
- The frame can be removed

