

# Insulated Enclosure KO 4763

with box terminals

for solder or plug-in technology



- Width 45 mm
- Max. 16 box-terminals with captive plus-minus-screws
- Electrical connection from PCB to terminal in solder or plug-in technology
- Mounting of SMD components possible on soldering side
- Available with removable terminal strips
- Available with changeable plate
- Spacer for PCB coding
- With changeable print area

## Technical Data

Order references:

| Front colour  | beige | light grey<br>RAL 7035 | blue<br>RAL 5015 | Enclosure version<br>with |
|---|-------|------------------------|------------------|---------------------------|
| <b>Machine soldering</b>                                |       |                        |                  |                           |
| KO 4763.120.16.04                                       | .000  | .007                   | .010             | front plate               |
| KO 4763.120.16.04                                       | .001  | .008                   | .011             | plate                     |
| KO 4763.120.16.04                                       | .002  | .009                   | .012             | plate clear               |
| <b>Solder technology with soldering lug</b>             |       |                        |                  |                           |
| KO 4763.120.16.04                                       | .025  | .028                   | .031             | front plate               |
| KO 4763.120.16.04                                       | .026  | .029                   | .032             | plate                     |
| KO 4763.120.16.04                                       | .027  | .030                   | .033             | plate clear               |
| <b>Plug-in technology with terminal plate</b>           |       |                        |                  |                           |
| KO 4763.120.16.03                                       | .001  | .002                   | .007             | front plate               |
| KO 4763.120.16.03                                       | .004  | .009                   | .011             | plate                     |
| KO 4763.120.16.03                                       | .005  | .010                   | .012             | plate clear               |
| <b>Plug-in technology with removable terminal strip</b> |       |                        |                  |                           |
| KO 4763.120.16.05                                       | .000  | .003                   | .006             | front plate               |
| KO 4763.120.16.05                                       | .001  | .004                   | .007             | plate                     |
| KO 4763.120.16.05                                       | .002  | .005                   | .008             | plate clear               |

**Outer dimensions:** 45 x 73,5 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:** 15 W for stand-alone enclosure  
at normal climate 23/50-1 ISO 554

**specific thermal resistance:**  $R_{th} = 6.5 \text{ K} / \text{W}$  for stand-alone enclosure

**Flame retardancy:**  
complying with UL 94: V-0; plate clear = V-2

**Number of terminals:** 16; < 16 on request

**Contact material**  
**Solder technology:** CuSn tin-plated  
**Plug-in technology:** CuBe tin-plated

**Max. cross section for connection:** max. 1 x 2.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4  
max. 1 x 4 mm<sup>2</sup> solid  
max 2 x 1.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4  
min.  $\varnothing$  0.1 mm

**Insulation of wires length:** 10 mm

**Max. contact resistance  
to printed circuit board:** 10 m $\Omega$

**Max. current carrying capacity:**  
**Solder technology:** 16 A  
**Plug-in technology:** 10 A

**Wire fastening:** captive plus-minus-terminal screws M3.5  
box terminals with self raising wire protection

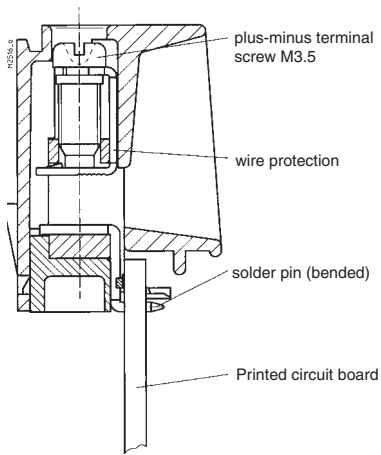
**Torque:** max. 0.8 Nm

**Inner connection:**  
**Solder technology:** machine soldered bedded solder pins, available  
with straight solder pins for horizontal PCB or  
with soldering lug for wiring connection or

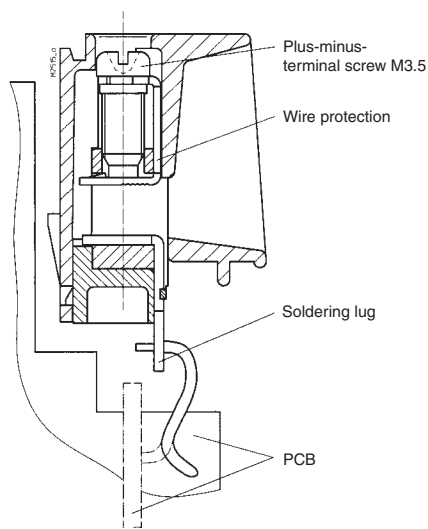
**Plug-in technology:** direct connection of PCB

**Enclosure fastener:** 1) Snap-on fastener on top hat rail IEC/EN 60 715  
2) Screw fixing as special version  
M4-grid 35 x 5  
M5-grid 35 x 60 by Adapter ET 4762-5

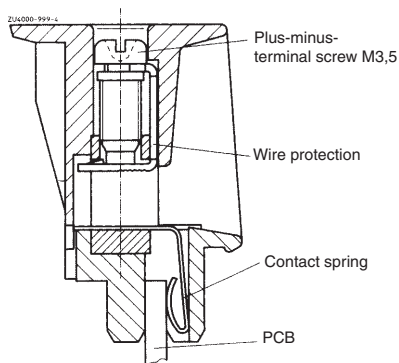
**Creepage current resistance:** CTI 175  $\cong$  insulated material III a IEC 60 664-1



Box terminal for machine soldering



Box terminal for soldering with soldering lug



Box terminal for plug-in technology

**Air gap and creepage distance:**  $\geq 3.3$  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

Print area:

45 x 43 mm (on front plate)

**Printed circuit board:**

33 / 22 cm<sup>2</sup>

Printed circuit board holder:

Guide ribs on the small side

Guide ribs on the wide side

**Accessories:**

ET 4762-5:

Adapter

Solder technology:

KO 4721-7-1.24:

Blanking plug clear

Plug-in technology:

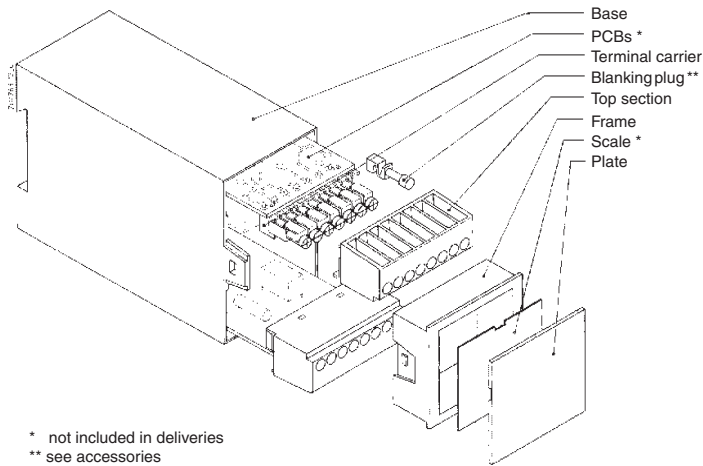
KO 4721-7-1.22:

Blanking plug clear

KO 4721-8-1:

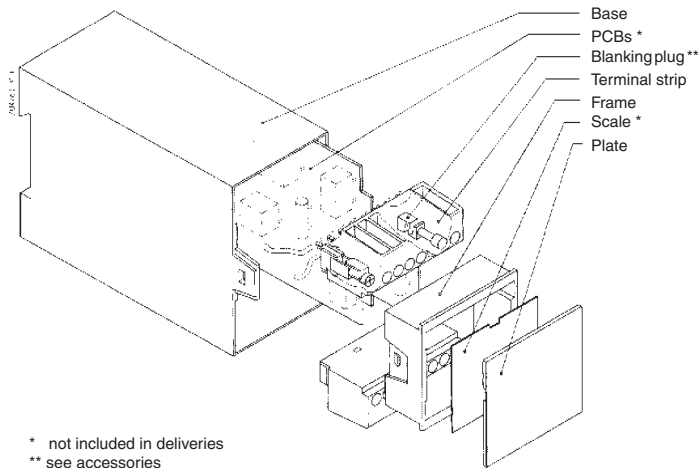
Spacer for PCB coding

## Machine solder technology



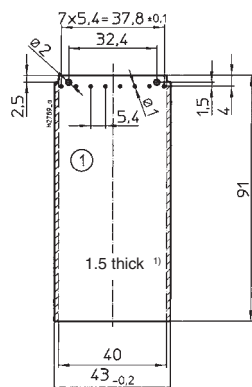
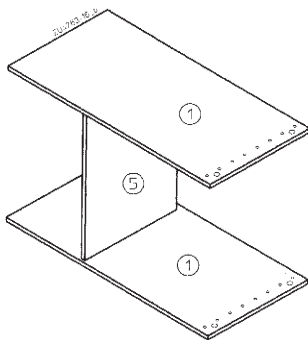
\* not included in deliveries  
\*\* see accessories

## Solder technology with soldering lug



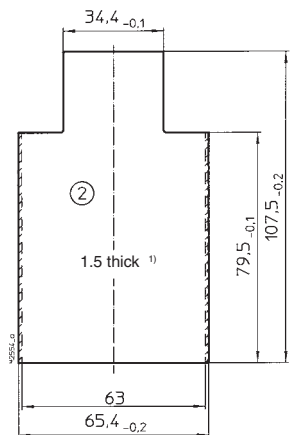
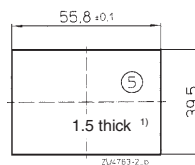
\* not included in deliveries  
\*\* see accessories

## Printed circuit board design for machine solder technology and solder technology with soldering lug



① Machine solderable vertical PCB

⑤ Horizontal PCB soldered between vertical PCBs

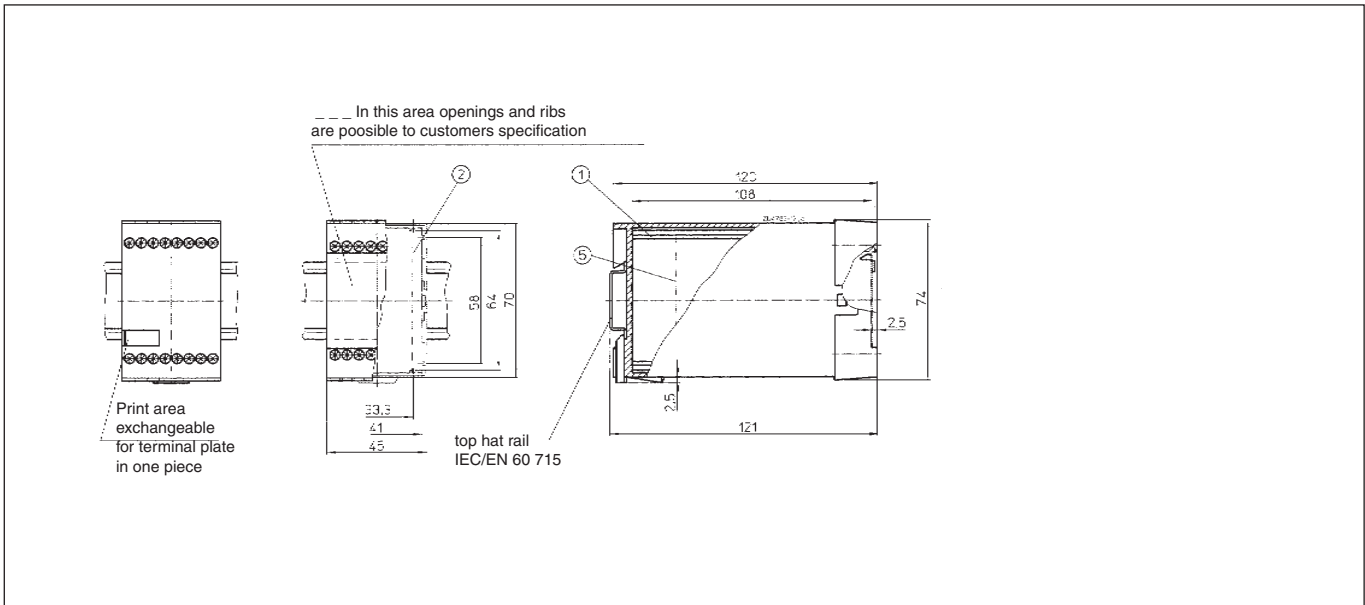


inhibited surface

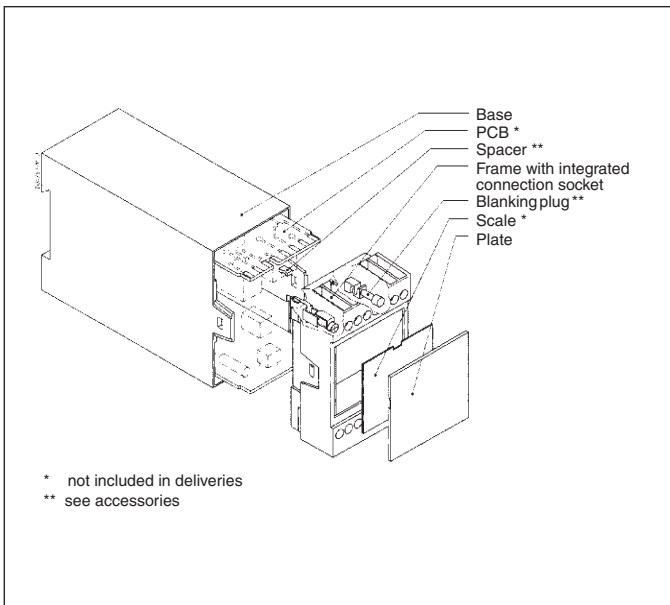
<sup>1)</sup> Tolerance according to IEC 60 249-2-4  
General tolerance: PERFAG E2

Applicable for solder technology with soldering lug only

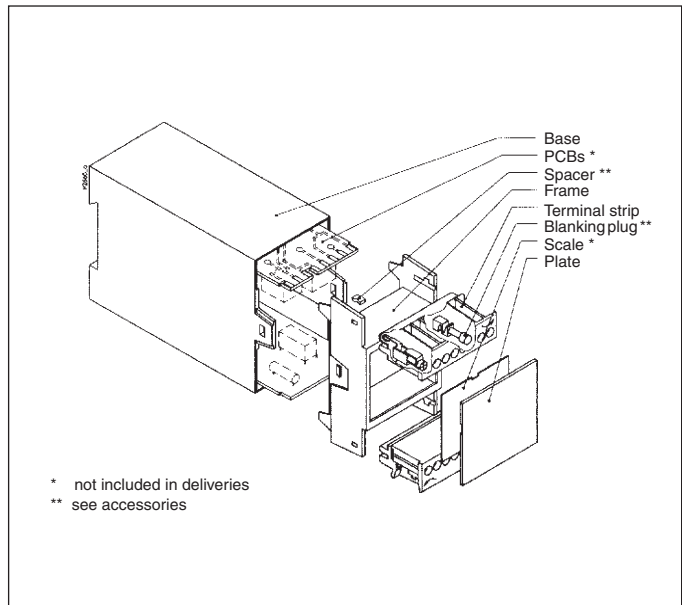
## Dimensions



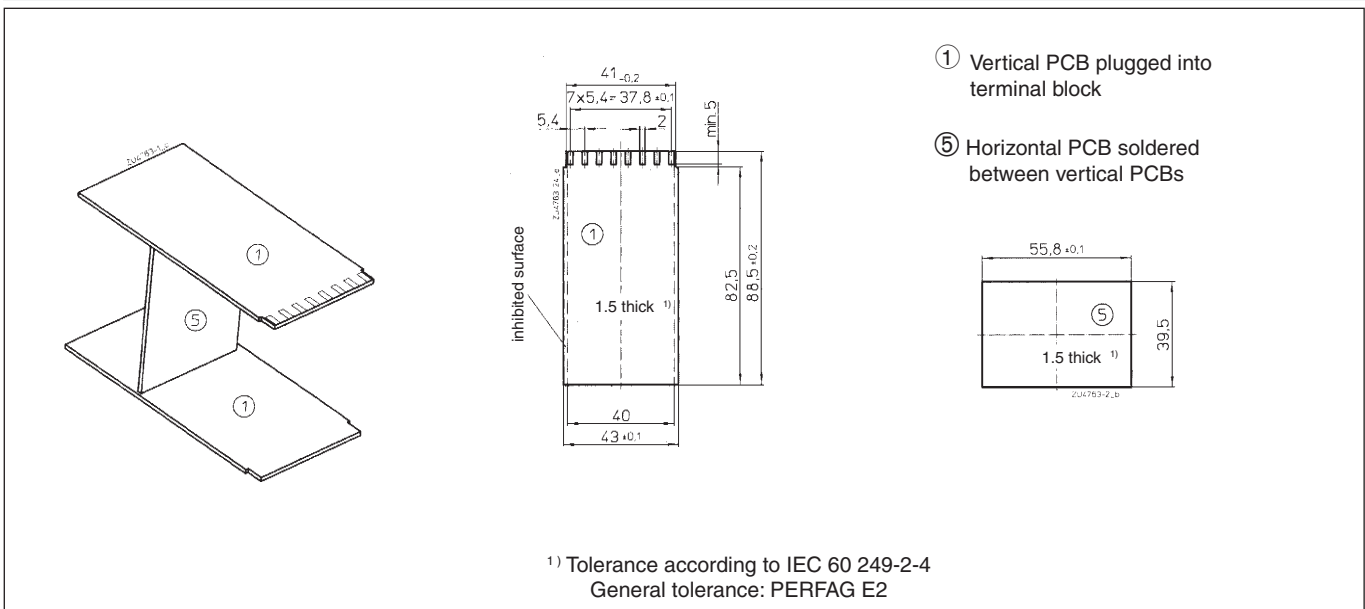
### Plug-in technology with pluggable terminal plate



### Plug-in technology with removable terminal strip



### Printed circuit board design for plug-in technology



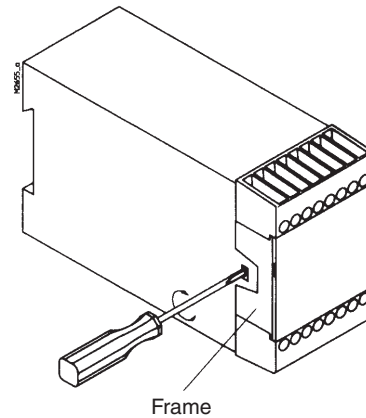
## Notes on Housing Opening

### 1. Tool

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

### 2. Removing of frame

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



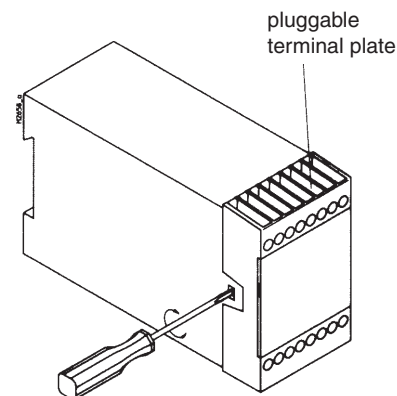
## Notes on Housing Opening Installation with pluggable terminal plate

### 1. Tool

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

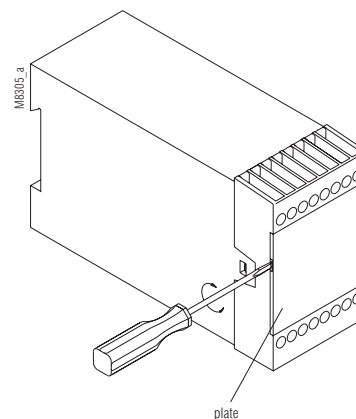
### 2. Removing of terminal plate

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



### 3. Demontage der Platte

- Insert a screwdriver in the side recesses of the plate
- With light pressure, turn the screwdriver to the left or right.
- Plate disengages and can be removed.



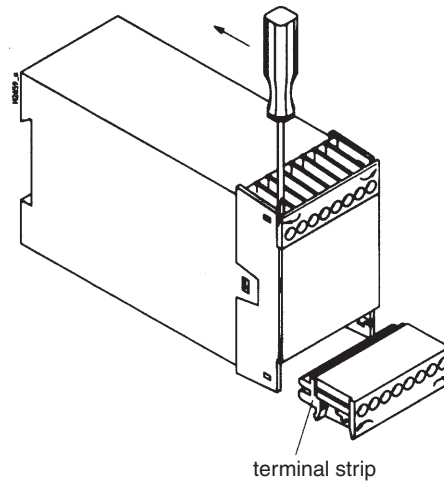
## Notes on Housing Opening Installation - removable terminal strip

### 1. Tool

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

### 2. Removing of terminal strip

- Insert a screwdriver between terminal strip and front frame
- Unclip the terminal strip by suriveling the screwdriver in the direction of the lug.
- Terminal strip can be removed



### 3. Removing of frame

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

