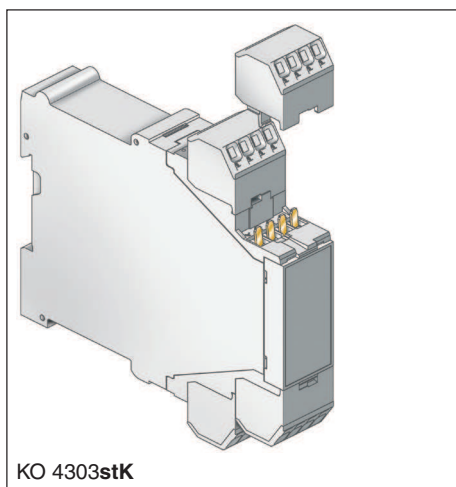


# Insulated Enclosure KO 4300stK

removeable terminal blocks with spring cage clamps  
for machine soldering technology



## Approvals and Markings

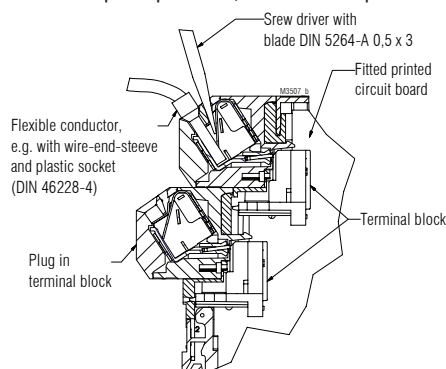


### Your Advantages

- modular, flexible
- various connection technologies
- distinctive design
- individual customisation

### Features

- Width 22.5 mm / 45 / 67.5 / 90 mm
- Max. 16 / 32 / 48 / 64 spring cage clamps
- Large, variable front plate surface
- Max. current carrying capacity 16 A
- Machine soldered terminal block, use of heat-resistant plastic means no cover for the terminal block facing the soldering bath is required
- Easy and quick connecting of conductors: solid wire and flexible wire with end ferrule can be inserted directly (saving of time in comparison to screw terminals: 50 - 80 %)
- Easy removing of conductors (put in a screwdriver according to DIN 5264-A 0.5 x 3)
- High spring force for a secure connection
- Printed circuit board density t = 1.5 mm and 1 mm possible
- More option possible, see "Other options"



## Technical Data

| Width [mm] | Depth [mm] | Order references | Article-No.: | Version  |
|------------|------------|------------------|--------------|----------|
| 22,5       | 118        | KO4303stK.       | 0055677      | Standard |
|            |            |                  | 0066662      | UL       |
|            | 97         | KO4323stK.       | 0055688      | Standard |
| 45         | 118        | KO4304stK.       | 0066663      | UL       |
|            |            |                  | 0060524      | Standard |
|            | 97         | KO4324stK.       | 0066664      | UL       |
| 67,5       | 118        | KO4305stK.       | 0060527      | Standard |
|            |            |                  | 0066665      | UL       |
|            | 97         | KO4325stK.       | 0060525      | Standard |
| 90         | 118        | KO4306stK.       | 0066666      | UL       |
|            |            |                  | 0060528      | Standard |
|            | 97         | KO4326stK.       | 0066667      | UL       |
|            |            |                  | 0060526      | Standard |
|            |            |                  | 0066668      | UL       |
|            |            |                  | 0060529      | Standard |
|            |            |                  | 0066669      | UL       |

Enclosure material:

Standard version:

PC-GF, light gray RAL 7035

(base plug in terminal block, side part and front plate)  
PA4/6, natur (terminal block)

Version UL

as well as standard, but plug in terminal block and  
side part in PA66/6, light gray RAL 7035

| Temperature stability        | PC     | PA66/6 | PA4/6  |
|------------------------------|--------|--------|--------|
| complying with UL 746 B:     | 125 °C | 120 °C | 120 °C |
| complying with Vicat ISO 306 |        |        |        |
| Meth. B:                     | 148 °C | 230 °C | 290 °C |
| compl. with ISO 75-2         |        |        |        |
| Meth. A:                     | 138 °C | 225 °C | 290 °C |
| Meth. B:                     | 144 °C | 235 °C | 290 °C |

Max. permitted power dissipation: see diagrams

Specific thermal resistance:

KO 4303stK; 04stK; 05stK:  $R_{th} = 6.5 \text{ K/W}; 5.5 \text{ K/W}; 4.2 \text{ K/W}$

KO 4323stK; 24stK; 25stK:  $R_{th} = 9.0 \text{ K/W}; 6.5 \text{ K/W}; 5.4 \text{ K/W}$

Flame retardancy compl. with UL 94: V-0

Number of terminals: 16

Terminal material:

steel strip (Spring made of stainless steel)

### Max. cross section for connection

|                                                   | mm <sup>2</sup> | 1 x 0,5 ... 2,5 / 0,5 ... 2,5 | 1 x 4 / 4 |
|---------------------------------------------------|-----------------|-------------------------------|-----------|
| solid / stranded:                                 |                 |                               |           |
| stranded ferruled, without or with plastic sleeve | mm <sup>2</sup> | 1 x 0,5 ... 1,5               | 1 x 2,5   |
| stranded twin ferruled and plastic sleeve         | mm <sup>2</sup> | 1 x 0,5 ... 1,0               | 1 x 1,5   |
| stripping length/length of ferrule                | mm              | 10 ... 12                     | 12        |

Max. contact resistance

to printed circuit board:

10 m  $\Omega$

Max. current carrying capacity:

16 A; US: 15 A; CN: 15 A

Wire fastening:

Spring cage clamp

Inner connection:

Terminal block can be machine soldered

Enclosure fastener:

Snap-on fastener on top hat rail IEC/EN 60 715

Creepage resistance:

Version Standard:

CTI 175  $\approx$  insulating material III a IEC 60 664-1

CTI 250 - 400  $\approx$  insulating material III a IEC 60 664-1

Version UL:

same as standard, but the plug in terminal block and

side-part CTI 550  $\approx$  insulating material II IEC 60 664-1

Air gap and creepage distance:

$\geq 4,0 \text{ mm}$

IEC 60 664-1

### Type of protection

Enclosure:

IP 40

IEC 60 529

Terminal strip:

IP 20

IEC 60 529

contact protection complies with VBG 4

Print area:

see dimensions

**Printed circuit board:**

See printed circuit board design

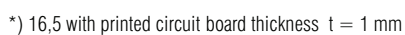
Printed circuit board holder:

Guide ribs in base

**Other options:**

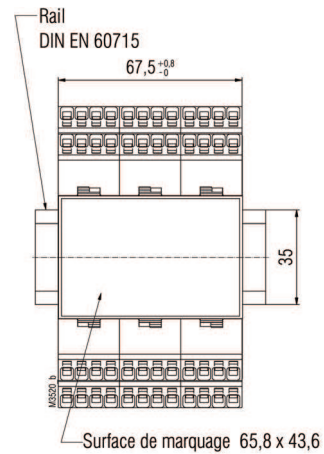
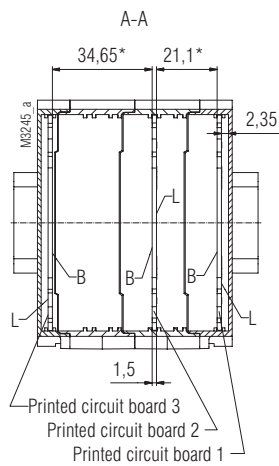
- Variable equipping level
- With ground terminal to top hat rail
- Side openings, e. g. for bus connection or ventilation slots
- Openings in base, e. g. for bus connection to top hat rail
- Variable front plate

**More informationen  
see brochure G23**

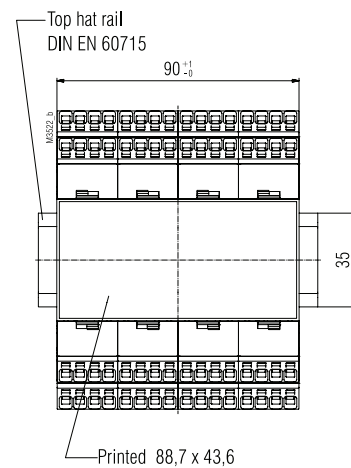
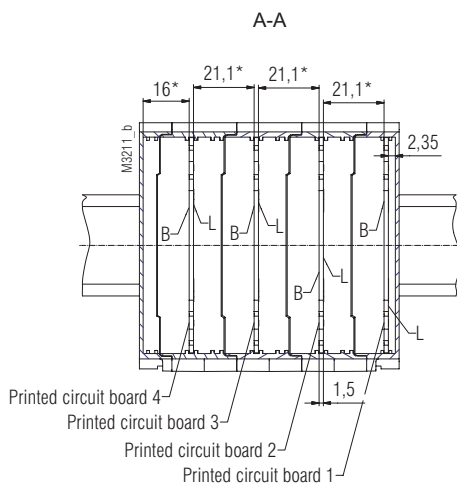
KO 430\_ **stK**Printed circuit board configuration KO 4304**stK** / KO 4324**stK**

## Dimensions

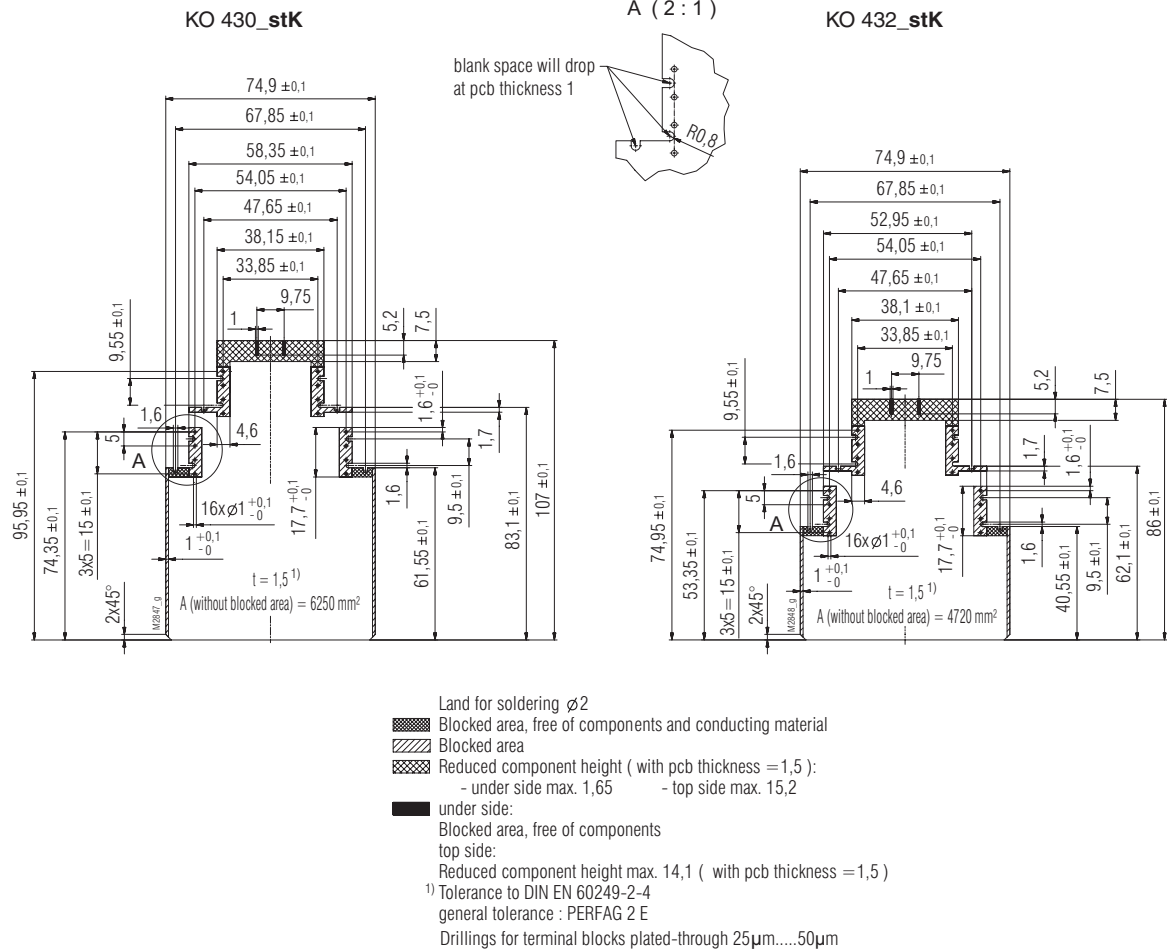
### Printed circuit board configuration KO 4305stK / KO 4325stK



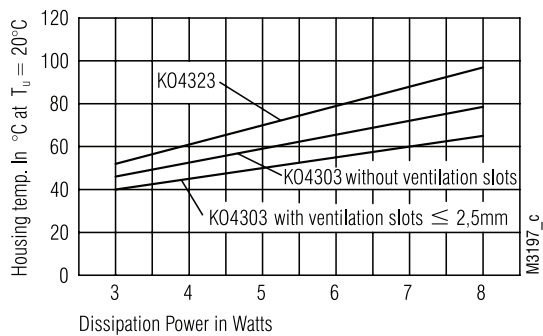
### Printed circuit board configuration KO 4306stK / KO 4326stK



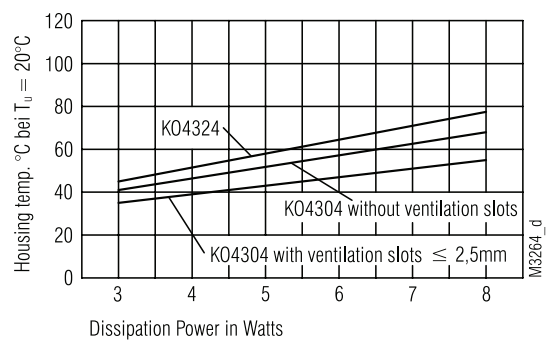
B = Component side  
L = Solder side  
\* = component height  
other printed circuit board configuration are possible



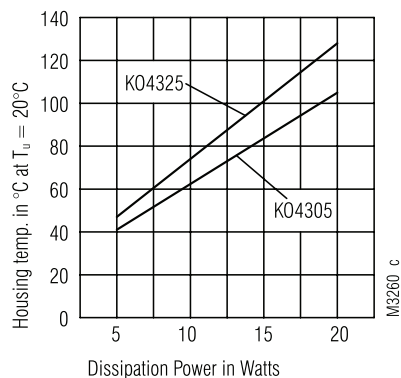
## Diagrams (Thermal Resistance)



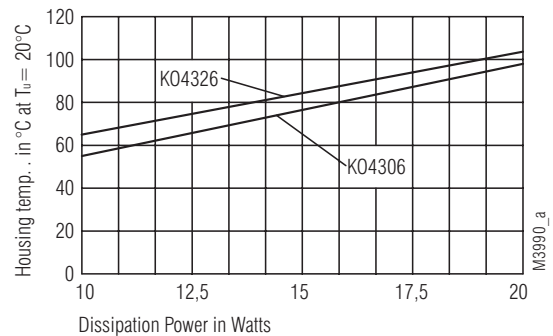
KO 4303stK, KO 4323stK



KO 4304stK, KO 4324stK



KO 4305stK, KO 4325stK

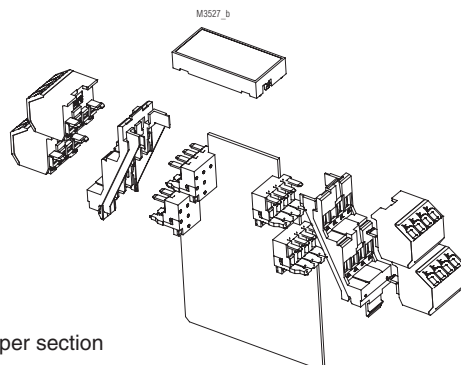
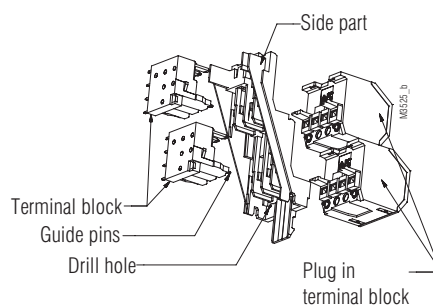


KO 4306stK, KO 4326stK

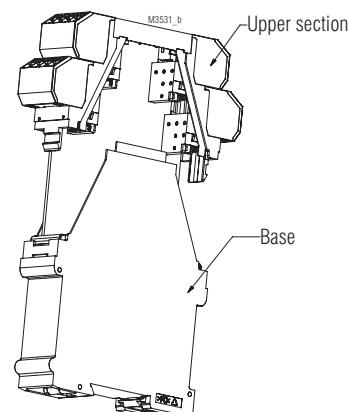
## Notes on Housing Installation

### 1. Installation of upper section

- Place all assemblies on a level surface.
- Push the side parts over the terminal blocks of the equipped printed circuit board; in doing so, the guide pins of the terminal blocks must slide into the drilled holes in the side parts
- Snap the front plate onto the premounted side parts
- Installation of the removeable terminal blocks (plug in)



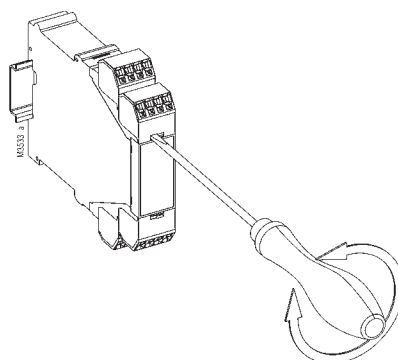
- Place all assemblies on a level surface.
- Slide the printed circuit board of the upper section into the guide grooves of the base.
- When placing the hood and upper section together, ensure that the wall areas overlap correctly. The guide element of the base must slide into the guide recess of the upper section.



## Notes on Housing Deinstallation

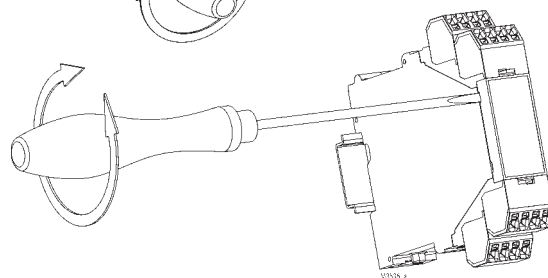
### 1. Deinstallation of the removeable terminal blocks

- Insert a screwdriver in the side recess of the front plate and removeable terminal block.
- Turn the screwdriver to the right and left.



### 2. Removing the front plate

- Insert a screwdriver in the side recess of the front plate.
- Turn the screwdriver to the right and left.



### 3. Removing the upper section

- Insert a screwdriver in the snap fastener of the base as far as it will go.
- With a tilting movement, release the snap fastening.
- Pull the upper section with the printed circuit board out of the base.

