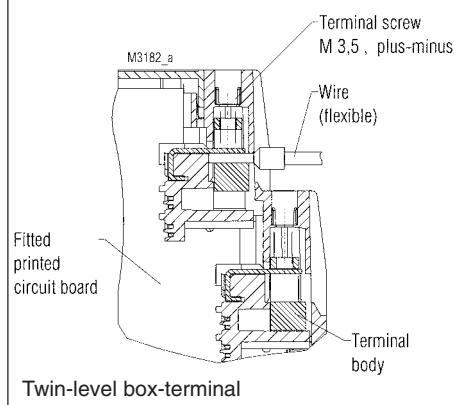


# Insulated Enclosure KO 4300S

with twin-level box terminal  
for machine soldering technology



- Width 22,5 / 45 / 67,5 / 90 mm
- Max. 16 / 32 / 48 / 64 box terminals
- Large, variable front plate surface
- Large cross section of connections possible (e.g. 2 x 1,5 mm<sup>2</sup> with stranded ferruled)
- Max. current carrying capacity
- machine soldered terminal block, use of heat-resistant plastic means no cover for the terminal block facing the soldering bath is required
- Large plus-minus screws enable high tightening torques
- high-voltage test complying with IEC 60 439-1
- Printed circuit board density t = 1,5 mm and 1 mm possible
- More option possible, see "Other options"



## Technical Data

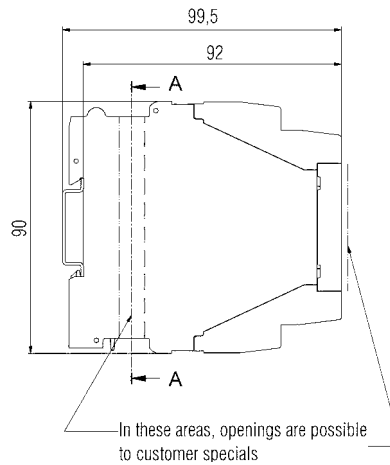
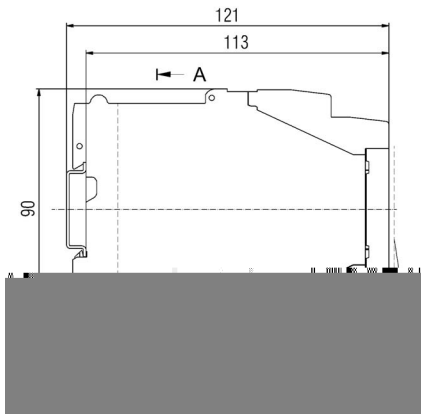
Order reference (parted frontplates):	width	depth = 118 mm	depth = 97 mm
	22,5 mm	KO 4303S.0054998	KO 4323S.0054999
	45 mm	KO 4304S.0055738	KO 4324S.0055681
	67,5 mm	KO 4305S.0055671	KO 4325S.0055682
	90 mm	KO 4306S.0055672	KO 4326S.0055683
Enclosure material:	PC-GF, light gray RAL 7035 (housing parts) polyamide (PA GF), natural (terminal block)		
Temperature stability:	PC		PA
complying with UL 746 B:	125 °C		
complying with Vicat ISO 306	Meth. B:	148 °C	
complying with ISO 75-2	Meth. A:	138 °C	> 290 °C
	Meth. B:	144 °C	> 290 °C
Max. permitted power dissipation:	see diagrams		
Specific thermal resistance:	KO 4303S; KO 4304S; KO 4305S: R <sub>th</sub> = 6,5 K/W; 5,5 K/W; 4,2 K/W KO 4324S; KO 4324S; KO 4325S: R <sub>th</sub> = 9,0 K/W; 6,5 K/W; 5,4 K/W		
Flame retardancy complying with UL 94:	V-0		V-0
complying with IEC 60 707:	BH 2-30		
<b>Number of terminals:</b>	KO 4303S, KO 4323S: 16 KO 4304S, KO 4324S: 32 KO 4305S, KO 4325S: 48 KO 4306S, KO 4326S: 64		
	} less, on request		
Terminal material:	steel strip, tin-plated		
Max. cross section for connection:	each 1 x 2,5 mm <sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4 each 1 x 4 mm <sup>2</sup> solid each 2 x 1,5 mm <sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3 each 2 x 2,5 mm <sup>2</sup> solid		
Min. cross section for connection:	each 1 x 0,5 mm <sup>2</sup> solid or stranded ferruled		
	DIN 4Wire fastening: with self raising terminal bo		
Inner connection:	Terminal block can be mach <b>use of heat-resistant plas for the terminal block fac bath is required</b>		
<b>Enclosure fastener:</b>	Snap-on fastener on top ha		
Creepage resistance:	Enclosure: CTI 175 ≙ insulating materi Terminal block: CTI 250 - 400 ≙ insulating m		
<b>Air gap and creepage distance:</b>	outside: ≥ 6,3 mm inside: ≥ 4,0 mm		
Type of protection	Enclosure: IP 40 Terminal strip: IP 20 contact protection complies		
Print area:	KO 4303S, KO 4323S: 20,5 x 43,6 mm KO 4304S, KO 4324S: 2 x 20,5 x 43,6 mm with tw 43 x 43,6 mm with one-part 3 x 20,5 x 43,6 mm with thr KO 4305S, KO 4325S: 65 x 43,6 mm with one-part 4 x 20,5 x 43,6 mm with fou 2 x 43 x 43,6 mm with two- 88 x 43,6 mm with one-part		
<b>Printed circuit board:</b>	Printed circuit board holder: See pronted circuit board d Guide ribs in base		
<b>Other options:</b>	- Variable equipping level - With ground terminal to t - Side openings, e. g. for b ventilation slots - Openings in base, e. g. f to top hat rail - Variable front plate, optio * flap cover * openings, depending on * Combination of 22,5 an upper sections are poss		
<b>More information</b>	see brochure G23		

All specifications correspond to the technology used at time of publication.  
We reserve the right to make improvements and changes of a technical nature at any time.

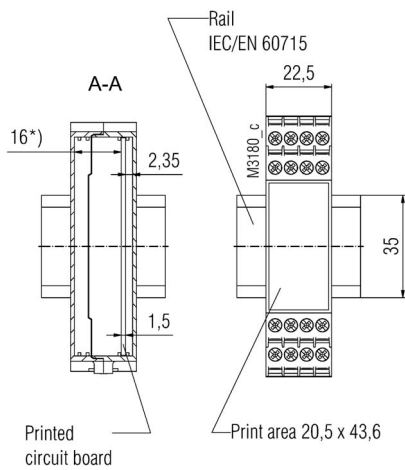
# Dimensions

KO 430\_

KO 432\_

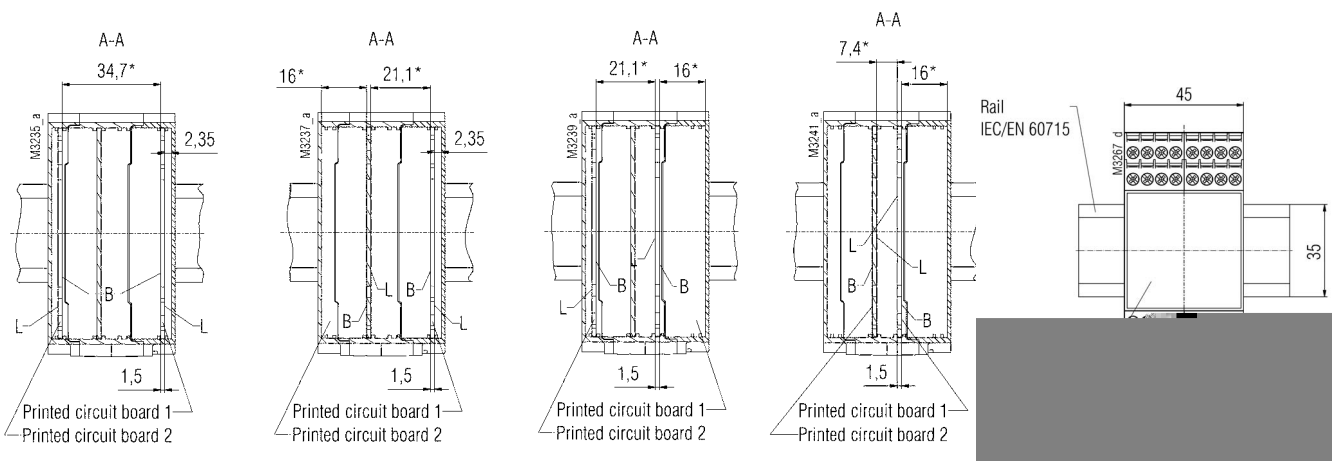


## Printed circuit board configuration KO 4303S / KO 4323S



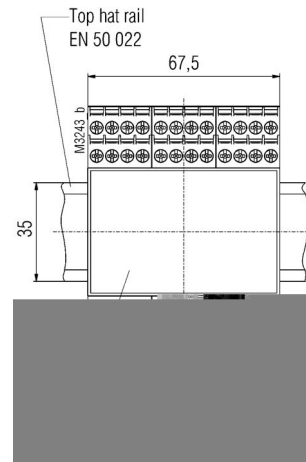
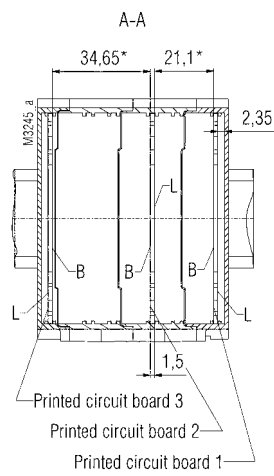
\* 16,5 with printed circuit board thickness  $t = 1 \text{ mm}$

## Printed circuit board configuration KO 4304S / KO 4324S

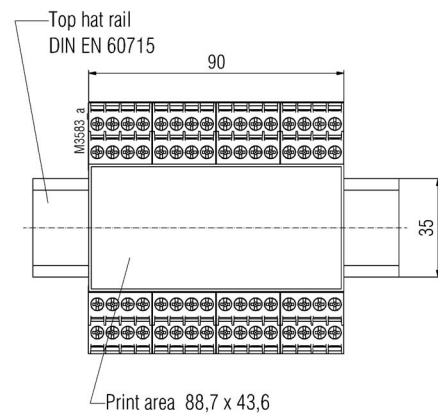
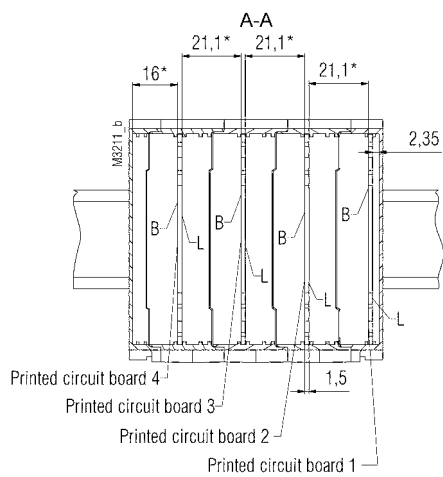


## Dimensions

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



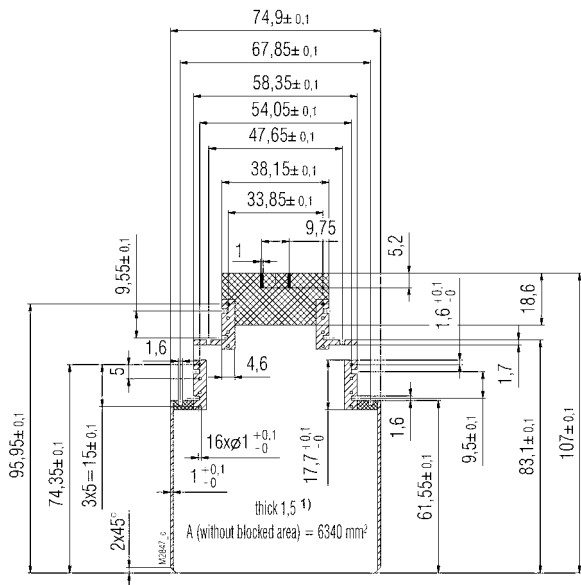
### Printed circuit board configuration KO 4306S / KO 4326S



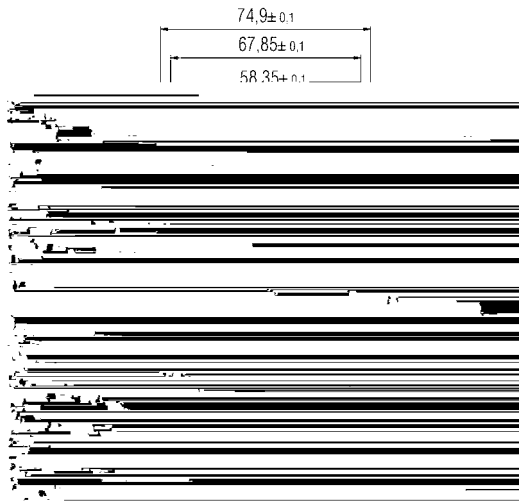
B = Component side  
 L = Solder side  
 \* = max. component height  
 Printed circuit board configuration are possible

Printed circuit board design

KO 430\_S

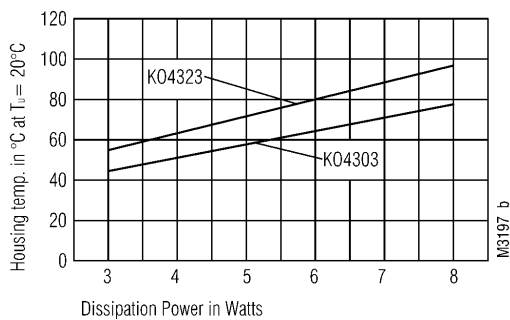


KO 432\_S

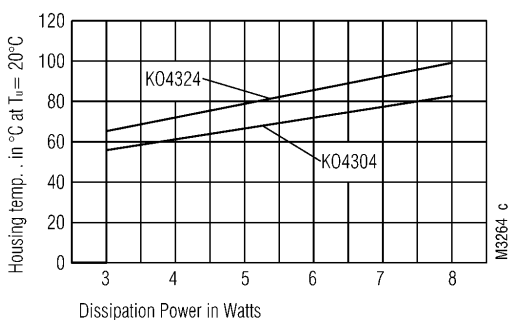


- Land for soldering Ø 2
- Blocked area, free of components and conducting material
- Blocked area
- Reduced component height (with pcb thickness = 1,5):
  - soldering side max. 1,65
  - component side max. 15,35
- Reduced component height (with pcb thickness = 1,5):
  - soldering side max. 0,5
  - component side max. 14,1
- Tolerance to IEC 60249-2-4

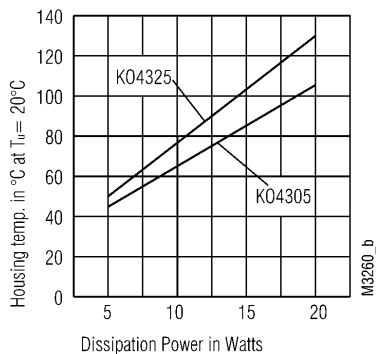
Diagrams (Thermal Resistance)



KO 4303S, KO 4323S



KO 4304S, KO 4324S

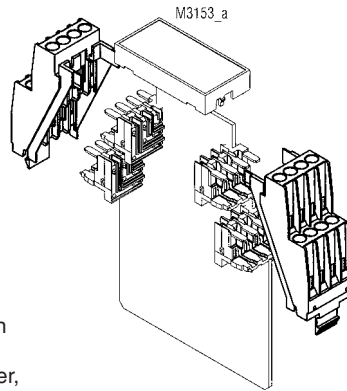
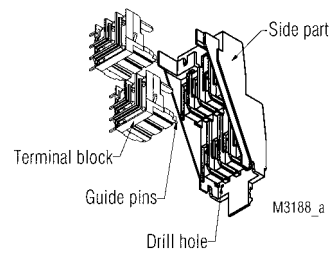


KO 4305S, KO 4325S

## Notes on Housing Installation

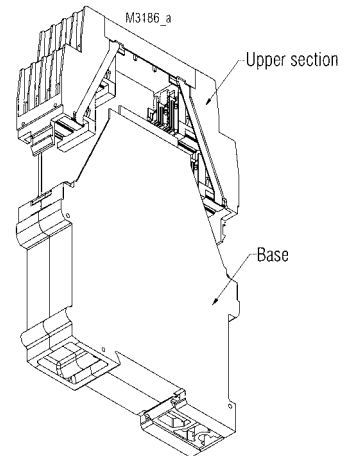
### 1. Installation of upper section

- 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



### 2. Installation of housing

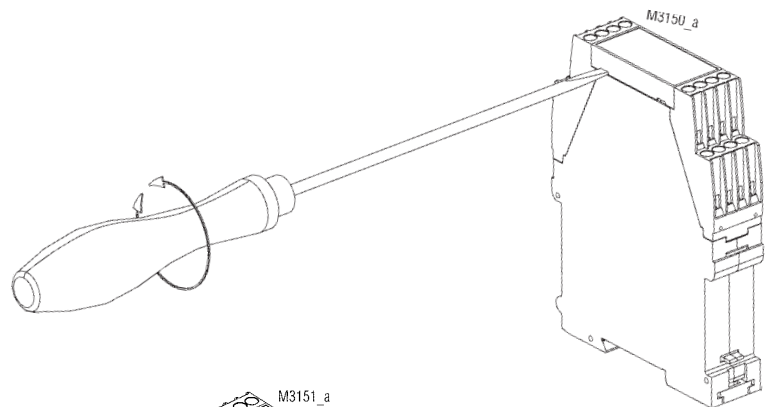
- Place all assemblies on a level surface.
- Slide the printed circuit board of the upper section into the guide grooves of the base.
- When placing the hood and upper section together, ensure that the wall areas overlap correctly. The guide element of the base must slide into the guide recess of the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



## Notes on Housing Deinstallation

### 1. Removing the front plate

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



### 2. 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.

