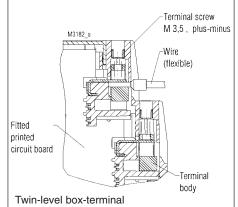
Insulated Enclosure KO 4300S

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 mm² 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 IFC 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	width	depth =	= 118 mm	depth = 97 mm
(parted frontplates):	22,5 mm	KO 43	03 S .0054998	KO 4323 S .0054999
	45 mm	KO 430	04 S .0055738	KO 4324 S .0055681
	67,5 mm	KO 430	05 S .0055671	KO 4325 S .0055682
	90 mm	KO 430	06 S .0055672	KO 4326 S .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: Meth. B:			> 29 > 29	
Max, permitted power dissipation: see diagrams				

rmitted power dissipation: see diagrams

Specific thermal

resistance: KO 4303**\$**; KO 4304**\$**; KO 4305**\$**: R_{th} = 6,5 K/W; 5,5 K/W; 4,2 K/W KO 4324**\$**; KO 4324**\$**; KO 4325**\$**: R_{th} = 9,0 K/W; 6,5 K/W; 5,4 K/W

Flame retardancy complying with UL 94: complying with IEC 60 707:

V-0 V-0 BH 2-30

Number of terminals:

KO 4303**S**, KO 4323**S**: KO 4304**S**, KO 4324**S**: KO 4305**S**, KO 4325**S**: KO 4306**S**; KO 4326**S**:

less, on request

Terminal material: steel strip, tin-plated

Max. cross section for connection:

each 1 x 2,5 mm² stranded femuled DIN 46 228-1/-2-/3/-4 each 1 x 4 mm² solid each 2 x 1,5 mm² stranded femuled DIN 46 228-1/-2-/3

each 2 x 2,5 mm² solid

each 1 x 0,5 mm² solid or stranded ferruled DIN 46 228-1/-2-/3/-4

Insulation of wires or

Min. cross section for connection:

sleeve length: Max. contact resistance to printed circuit board: 10 m Ω

Max. current carrying capacity: 16 A

Wire fastening: Captive plus-minus-terminal screws M3,5

8 mm

with self raising terminal box

Terminal block can be machine soldered; Inner connection:

use of heat-resistant plastic means no cover for the terminal block facing the soldering

bath is required

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

Creepage resistance: Enclosure:

CTI 175

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

insulating material III a IEC 60 664-1 IEC 60 664-1 Terminal block:

outside: \geq 6,3 mm inside: \geq 4,0 mm Air gap and creepage distance:

IEC 60 664-1 IEC 60 664-1

Type of protection

Enclosure: IFC 60 529 Terminal strip: IEC 60 529

contact protection complies with VBG 4

Print area: KO 4303**S**, KO 4323**S**: KO 4304**S**, KO 4324**S**:

Printed circuit board:

More information see brochure G23

Printed circuit board holder:

KO 4305S. KO 4325S: KO 4306S, KO 4326S:

20,5 x 43,6 mm 2 x 20,5 x 43,6 mm with two-parted front or 43 x 43,6 mm with one-parted front or 65 x 43,6 mm with one-parted front or 65 x 43,6 mm with one-parted front 4 x 20,5 x 43,6 mm with four-parted front 2 x 43 x 43,6 mm with two-parted front 88 x 43,6 mm with one-parted front

See pronted circuit board design

Guide ribs in base

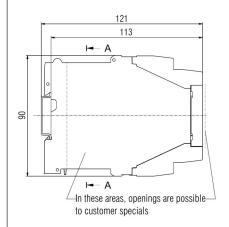
Other options:

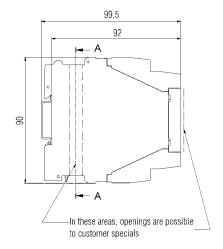
- Variable equipping level With ground terminal to top hat rail
- Side openings, e. g. for bus connection or ventilation slots
- Openings in base, e. g. for bus connection
- to top hat rail Variable front plate, optionally with:
 - flap cover
- openings, depending on customer specification Combination of 22,5 and 45 mm (width) upper sections are possible

Dimensions

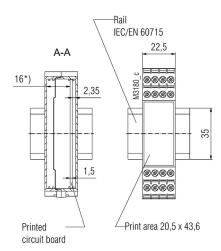
KO 430_

KO 432_



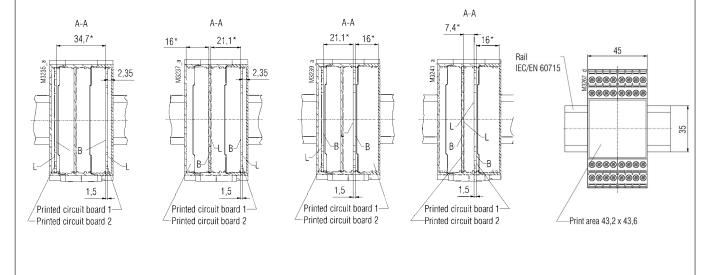


Printed circuit bord configuration KO 4303\$ / KO 4323\$



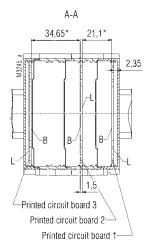
 * 16,5 with printed circuit board thickness t = 1 mm

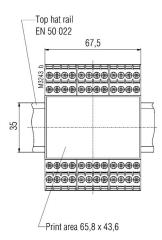
Printed circuit bord configuration KO 4304 $\mathbf S$ / KO 4324 $\mathbf S$



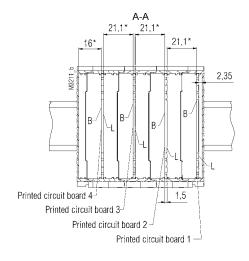
Dimensions

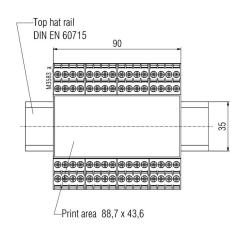
Printed circuit bord configuration KO 4305\$ / KO 4325\$





Printed circuit bord configuration KO 4306\$ / KO 4326\$





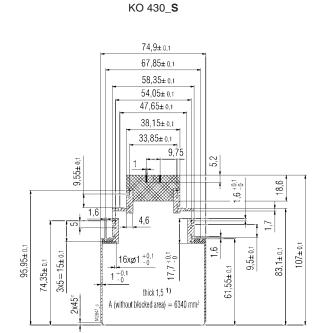
B = Component side

L = Solder side

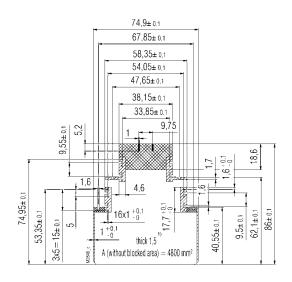
* = max. component height

Printed circuit bord configuration are possible

Printed circuit board design



KO 432_S



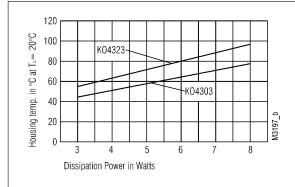
Land for soldering Ø 2

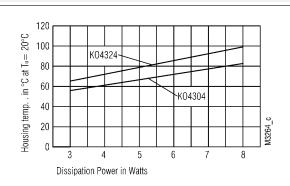
Blocked area, free of components and conducting material

Bocked area

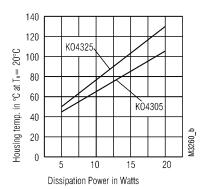
- soldering side max. 1,65 - component side max. 15,35
Reduced component height (with pcb thickness = 1,5):
- soldering side max. 0,5 - component side max. 14,1
Tolerance to IEC 60249-2-4

Diagrams (Thermal Resistance)





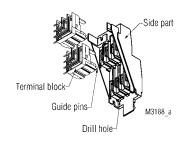
KO 4303S, KO 4323S

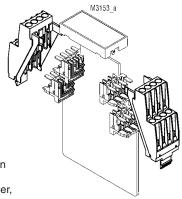


KO 4304S, KO 4324S

Notes on Housing Installation

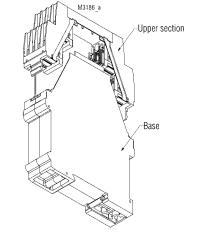
- 1. Installation of upper section
 - Place all assemblies on a level surface.
 - Push the side parts over the terminal blocks of the equipped printed circuit board; in doing so, the guide pins of the terminal blocks must slide into the drilled holes in the side parts
 - Snap the front plate onto the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





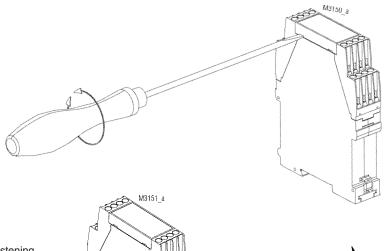


- Place all assemblies on a level surface.
- Slide the printed circuit board of the upper section into the guide grooves of the base.
- When placing the hood and upper section together, ensure that the wall areas overlap correctly. The guide element of the base must slide into the guide recess of the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

