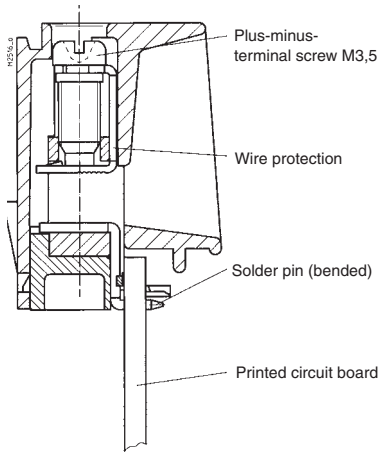
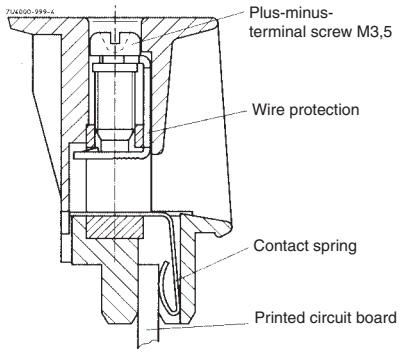
Insulated Enclosure KO 4713

with box terminals
for machine soldering or plug-in technology

- Width 75 mm
- Max. 22 box terminals with captive plus-minus-screws
- Electrical connection of PCB to terminal in machine soldering or plug-in technology
- Mounting of SMD components possible on soldering side
- Optionally with changeable plate
- Spacer for PCB coding
- Optionally with removable terminal strip for plug-in technology
- Optionally with Blanking strip



Box terminal for machine soldering



Box terminal for plug-in technology

Technical Data

Bestellbezeichnungen: Frontfarbe	beige	light grey RAL 7035	blue RAL 5015	Enclosure variant with
Machine soldering:				
KO 4713.118.22.03	.004	.005	.008	Front plate
KO 4713.118.22.03	.002	.006	.009	Plate
KO 4713.118.22.03	.003	.007	.010	Plate clear
Plug-in technology:				
KO 4713.118.22.02	.001	.004	.007	Front plate
KO 4713.118.22.02	.002	.005	.008	Plate
KO 4713.118.22.02	.003	.006	.009	Plate clear

Outer dimensions: 75 x 73.5 x 118,2 mm

Enclosure material: PC-GF, Haube schwarz, Frontfarbe siehe Tabelle

Temperature stability:		
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: 21 W for stand-alone enclosure at normal climate 23/50-1 ISO 554

Specific thermal resistance: R_{th} = 5 K / W for stand-alone enclosure

Flame retardancy
complying with UL 94: V-0
complying with IEC 60 707: BH 2-30

Number of terminals: 22, < 22 on request

Terminal material
machine soldering: CuSn tin-plated
plug-in technology: CuBe tin-plated

Max. cross section for connection: each 1 x 4 mm² solid
each 1 x 2.5 mm² stranded ferruled DIN 46 228-1/-2/-3/-4
each 2 x 1.5 mm² stranded ferruled DIN 46 228-1/-2/-3/-4

Insulation of wires length: 10 mm

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

Torque: max. 0,8 Nm

Connection inside:
machine soldering: 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

Print area
machine soldering: 42 x 75 mm (on front plate)
plug-in technology: 33 x 75 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

Net-weight: approx. 210 g

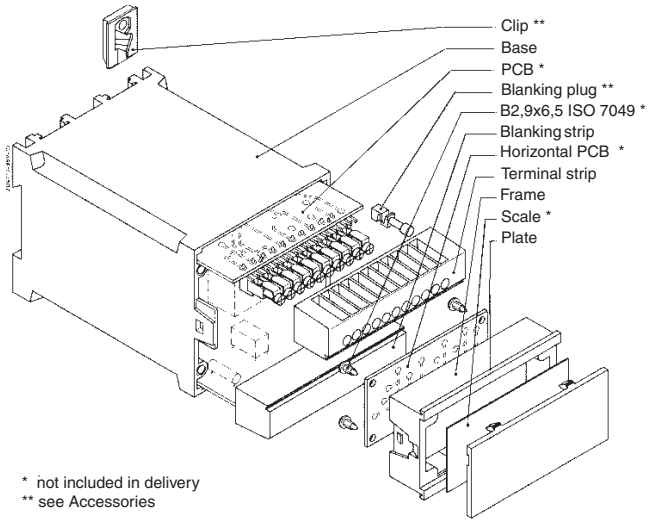
Accesories:

ET 4720-1-2: clips for screw fixing

		plug-in technolology				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	

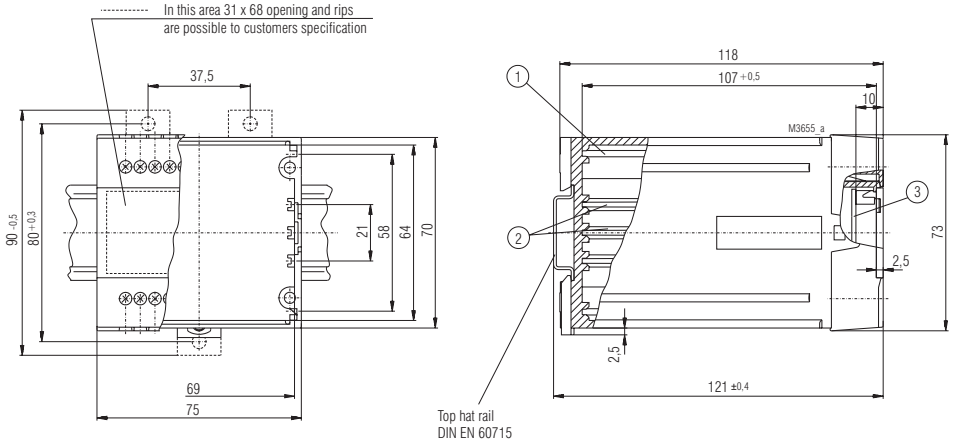
All specifications correspond to the technology used at time of publication.
We reserve the right to make improvements and changes of a technical naturre at any time.

Machine solder technology

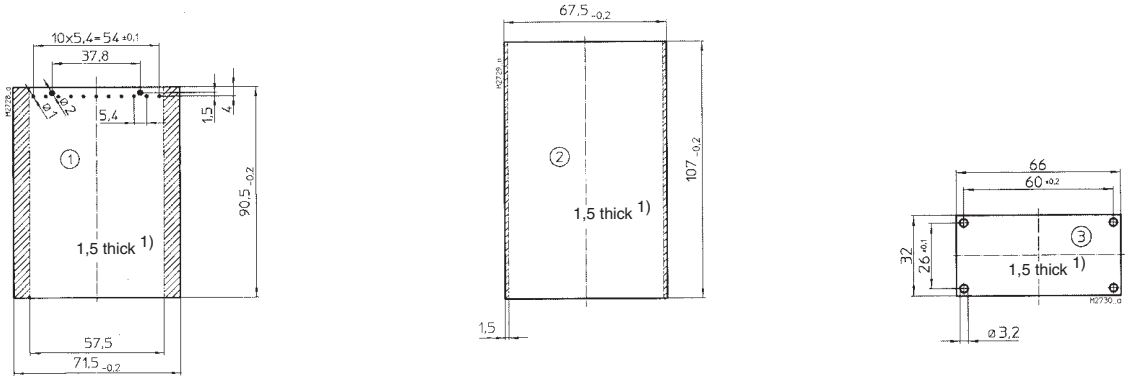


* not included in delivery
** see Accessories

Dimensions

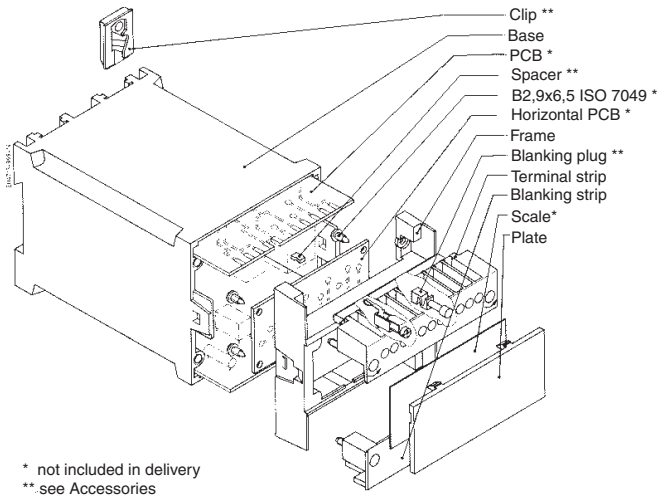


Printed circuit board design



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

Plug-in technology



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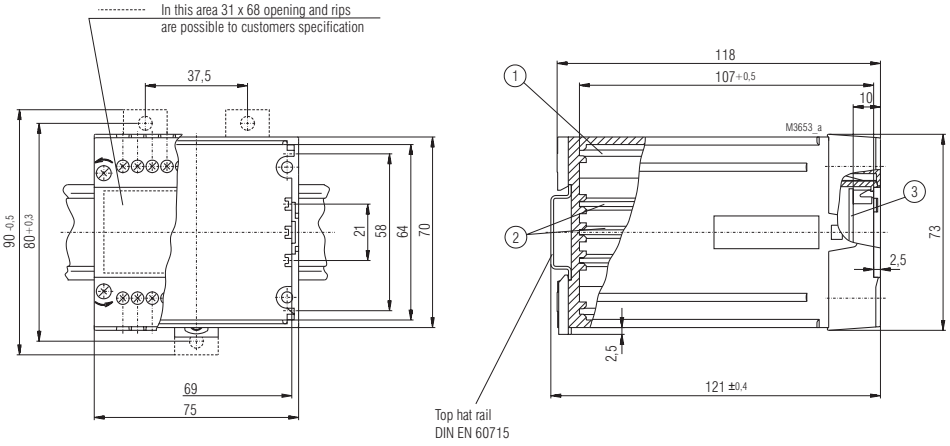

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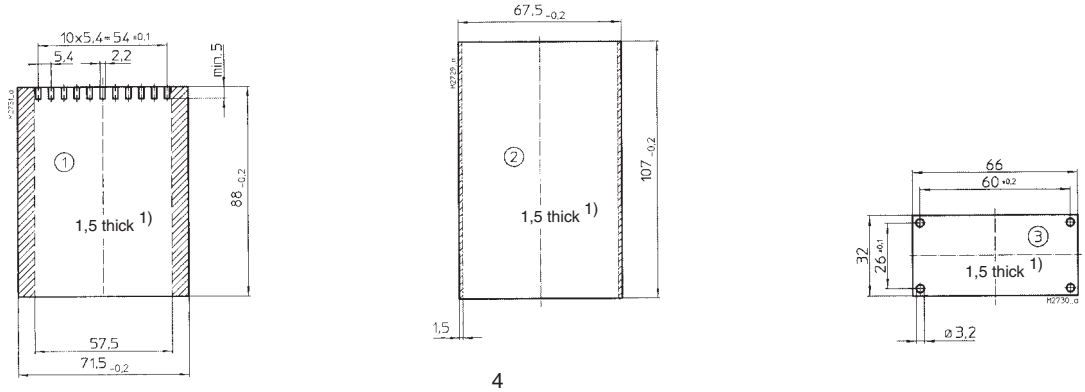

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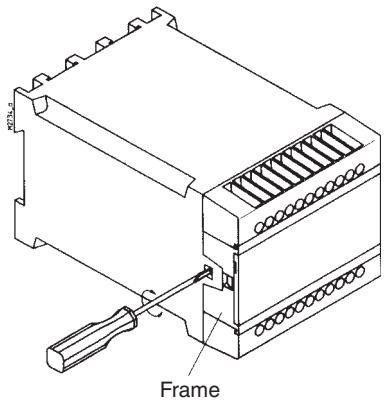
Inhibited surface
1) Tolerance complying with IEC/EN 60249-2-4

Notes on Housing Opening

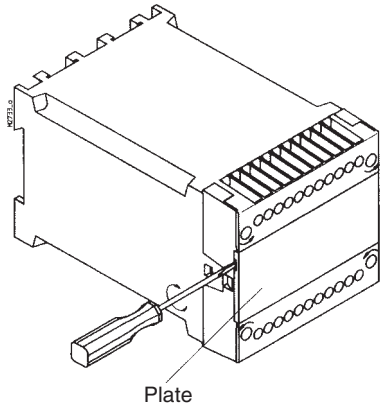
Enclosure for solder technology

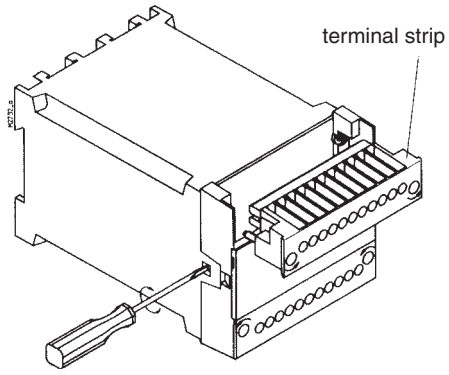
1. Tool
   - for all functions use 0,8 x 4,0 or 0,8 x 4,5 screwdriver

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.

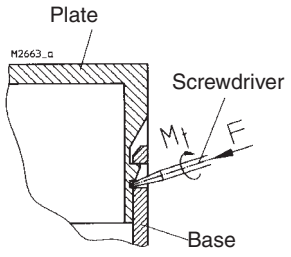


Enclosure for plug-in technology





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.