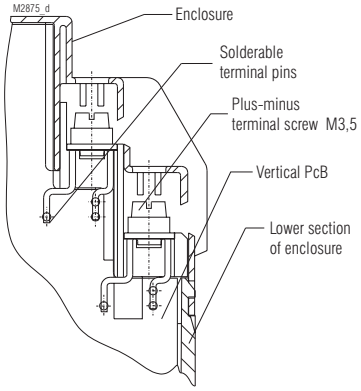
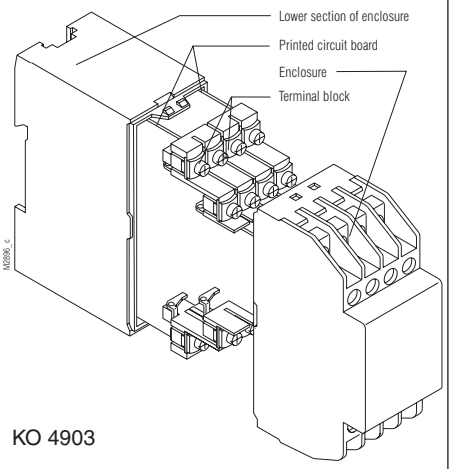
Insulated Enclosure KO 4903

for surface mounting and mounting in cabinets,
with flat terminals

- Width 35 mm
- Max. 16 plus-minus terminal screws with self-raising terminal washers
- Reliable connection of max. 2 wires even with different diameter
- Terminal blocks can be machine-soldered additional wire soldering is possible
- Housing supplied as single parts, terminals prefitted in terminal blocks



Flat terminals for solder connection



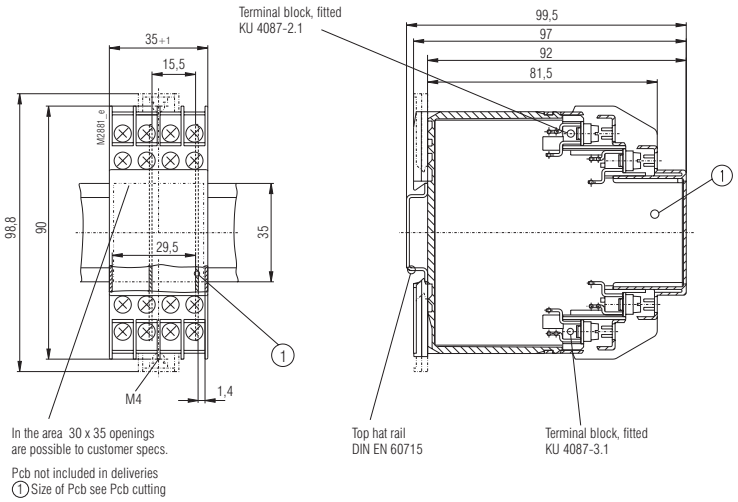
KO 4903

Technical data

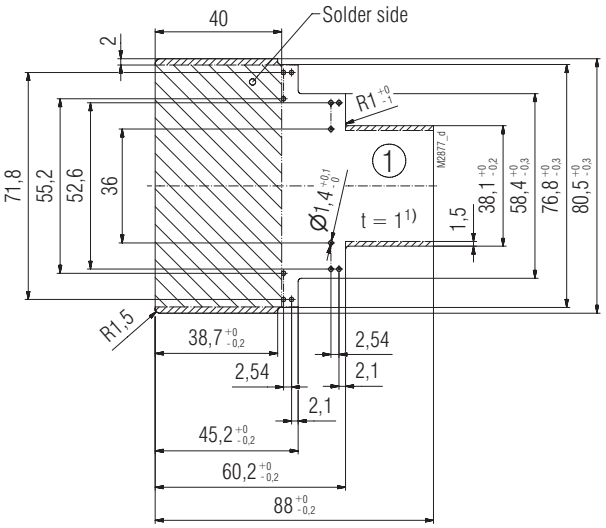
Order reference:		KO 4903.0049467
Outer dimensions:		35 x 90 x 97 mm
Enclosure material:		PC-GF, light gray RAL 7035
Temperature stability:		
complying with UL 746 B:		125 °C
complying with Vicat ISO 306	Meth. B:	148 °C
compl. with ISO 75-2	Meth. A:	138 °C
	Meth. B:	144 °C
Max. permitted power dissipation:		9 W for stand-alone enclosure at normal climate 23/50-1 ISO 554
Specific thermal resistance:		R_{th} = 6 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:		16, < 16 on request
Terminal material:		Steel strip, tin-plated
Max. cross section for connection:		2 x 2.5 mm² solid 2 x 1.5 mm² stranded ferruled DIN 46 228-1/-2/-3/-4 min. ∅ 0,1mm solid
Insulation of wires length:		9 - 10 mm
Max. contact resistance to printed circuit board:		20 mΩ
Max. current carrying capacity:		16 A, 40 A on request
Wire fastening:		Captive plus-minus terminal screws (M3.5) with self-raising terminal washers Function complying with IEC 60 999-1
Torque:		max. 0.8 Nm
Inner connection:		Machine-solderable terminal pins for printed circuit board and soldering pin for strands
Housing fastener:		1) Snap-on fastener on top hat rail EN 50 022 2) Screw fastening M4, grid 90 mm with second clip as accessory
Creepage current resistance:		CTI 175 ≙ insulating material III a IEC 60 664-1
Air gap and creepage distances		IEC 60 664-1
Housing for vertical printed circuit board:		Air gap ≥ 4 mm Creepage distance ≥ 6,3 mm
Type of protection		IEC 60 529
Enclosure:		IP 40
Terminal opening:		IP 20 Contact protection complies with VBG 4
Print area:		35 x 44 mm
Printed circuit board:		See Printed circuit board design
Printed circuit board holder:		Guide ribs
Component installation height for a vertical printed circuit board		
on component side:		≤ 29 mm
on soldering side:		≤ 2.0 mm bzw. 1.6 mm (see Printed circuit board design)
Net weight:		130 g
Accessories:		
ET 4086-0-2:		Second clip for screw fastening
KU 4087-0-2:		Blanking plug for enclosure base
KU 4089-3-4:		Blanking plug for terminal block
KU 4087-2-1:		Dummy terminal block for vertical PCB

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.

Dimension



Printed circuit board design



Inhibited surface

In this area max. component and pin hight 1,4 mm

1) Tolerance complying to IPC-4101 / 21
Gerneral tolerance PERFAG 2E