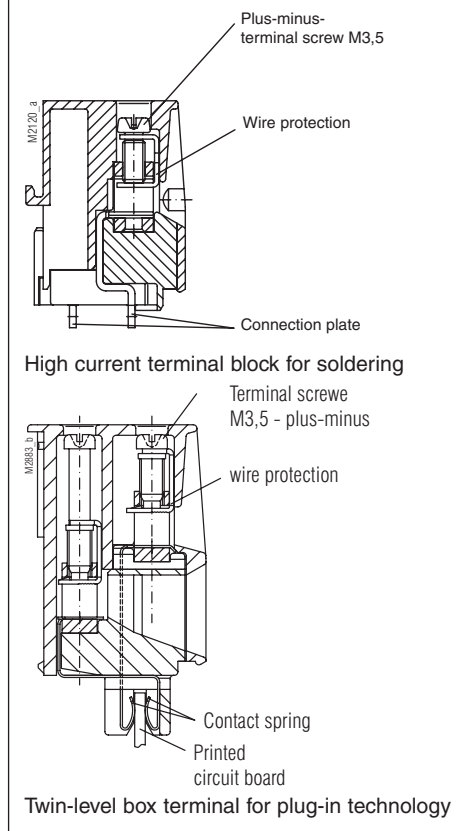


Insulated Enclosure KO 4736

with 2 high current terminal blocks for solder connection
and 2 twin-level terminal blocks for Plug-in technology



- Width 67.5 mm
- High current terminal block for soldering
 - Max. 6 box terminals with captive plus-minus terminal screw
 - Electrical connection of PCB to terminal via stranded ferruled
- twin-level terminal block for plug-in technology
 - Max. 28 box terminals with captive plus-minus terminal screw
 - Twin-level terminal
 - Removable terminal blocks for connection with PCB
 - Terminal blocks with choice of 3-; 4- or 7-terminals or as blanking block
- Installation of SMD components on outer surface (soldering side) possible
- Can be used for EExi complying with EN 50 020



Approval and Marking



Technical Data

Order reference:	beige	grey RAL 7035	blue RAL 5015	clear	black
Base, with one clip PC	KO 4732-	1.3			1.1
Base, with one clip PA (UL)	KO 4732-				1.5
Base, with one clip PBT (UL)	KO 4732-	1.6			
Frame PC (UL)	KO 4736-	2-1.1	2-1.3	2-1.4	
Terminal block, 3 term. PC	KO 4733-	3.21	3.23	3.24	
Terminal block, 3 term. PA (UL)	KO 4733-		3.158		3.126
Terminal block, 3 term. PBT (UL)	KO 4733-		3.13	3.14	
Terminal block, 4 term. PC	KO 4733-	3.11			
Terminal block, 4 term. PA (UL)	KO 4733-				3.124
Terminal block, 4 term. PBT (UL)	KO 4733-		3.157		
Terminal block, 7 term. PC	KO 4733-	3.1	3.3	3.4	
Terminal block, 7 term. PA (UL)	KO 4733-				3.123
Terminal block, 7 term. PBT (UL)	KO 4733-		3.156		
Blanking block PC	KO 4733-	3.31	3.33	3.34	
High current terminal block, 3 terminals PC	KO 4734-	4.5			
High current terminal block, 3 terminals PA (UL)	KO 4734-				4.23
High current terminal block, 3 terminals PBT (UL)	KO 4734-		4.26		

Outer dimensions: 67.5 x 84 x 118 mm
Enclosure material: PC-GF, Base black, front beige

Temperature stability:	PC	PA	PBT
complying with UL 746 B:	125 °C	120 °C	120 °C
complying with Vicat Meth. A:		212 °C	
ISO 306 Meth. B:	148 °C	212 °C	134 °C
compl. with ISO 75-2 Meth. A:	138 °C	230 °C	145 °C
Meth. B:	144 °C	210 °C	150 °C

Max. permitted power dissipation: 15 W for stand-alone enclosure at normal climate 23/50-1 ISO 554

Specific thermal resistance: R_{th} = 5.5 K / W for stand-alone enclosure

Flame retardancy: complying with UL 94: PC: V-0; PC: plate clear = V-2; PA: V-0; PBT: V-0
 complying with IEC 60 707: BH 2-30

	high current terminal block	twin-level terminal block
Number of terminals:	6, < 6 on request	28, < 28 on request
Terminal material:	steel strip, tin-plated	Cu-alloy tin-plated
Max. cross section for connection:	1 x 10 mm ² solid insulation 11 mm	1 x 2.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4
	1 x 6 mm ² -12 stranded ferruled DIN 46 228-1/-2/-3/-4	1 x 4 mm ² solid 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4
Min. cross section for connection:	≥ 1 mm ² solid ≥ 0.5 mm ² strand.ferruled	
Insulation of wires length:	11 mm	10 mm
Max. current carrying capacity:	40 A	see table

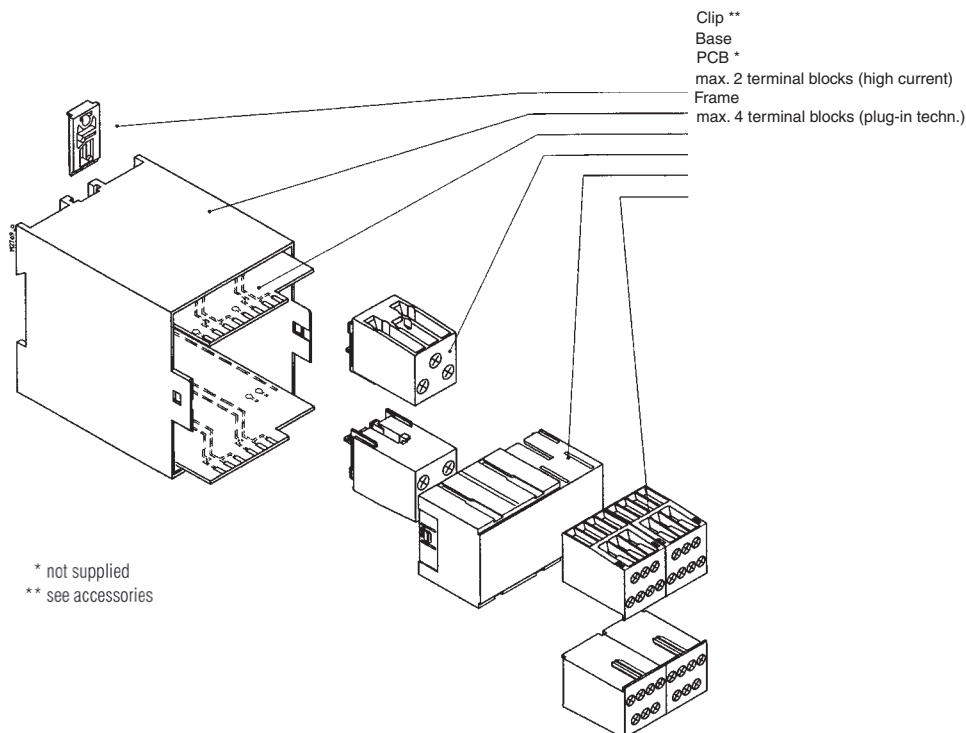
Max. current carrying capacity of terminal blocks:	(UL) Ex. 1	Ex. 2	Ex. 3	(UL) Ex. 4	Ex. 5	(UL) Ex. 6
∞ Σ I _{max.} = 15 A	5 5					
∞ Σ I _{max.} = 28 A	7 7 7 7	8 6 7 7	8 6 8 6			
∞ Σ I _{max.} = 35 A	5 5 5 5	5 5 5 5	3 2 2	2 3 2	1 1 5	5 5 5
	5 5 5 5	8 4 4 4	8 6 7 7	7 7 7 7	8 6 8 6	3 7 7 3

□ = max. value per terminal point, □ = max. value per terminal row

Technical Data

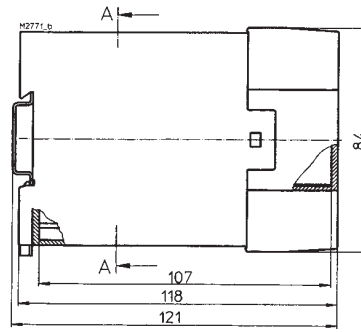
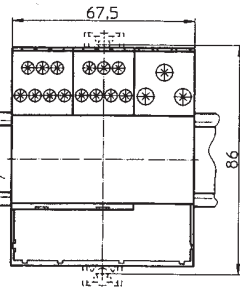
Wire fastening:	captive plus-minus-terminal screws M4	captive plus-minus-terminal screws M3,5
	Box terminal with self raising wire protection	
Torque:	1.2 Nm	0.8 Nm
Inner connection:	solder connection	direct connection of PCB
Enclosure fastener:	1) Snap-on fastener on top hat rail EN 50 022 2) Screw fixing M4, grid 90 mm with additional clip as accessories	
Creepage current resistance:	PC: CTI 175 $\hat{=}$ insulating material III a IEC 60 664-1 PA: CTI 600 $\hat{=}$ insulating material I IEC 60 664-1 PBT: CTI 225 $\hat{=}$ insulating material III IEC 60 664-1	
Air gap and creepage distance:	≥ 5.5 mm complying with IEC 60 664-1	≥ 3.3 mm complying with IEC 60 664-1 with plugged-in PCB
Type of protection		
Enclosure:	IP 40	IEC 60 529
Terminals:	with terminal screws: IP 20 contact protection complies with VBG 4	IEC 60 529
Printed area:	67.5 x 33 mm	
Printed circuit board:	see printed circuit design	
Printed circuit board holder:	guide ribs	
Net weight:	250 g	
Accessories:		grey RAL 7035 blue RAL 5015 black
Legend plate for twin-level terminal block	KO 4730-	3-1.3 3-1.4 3-1.5
2 clips for screw fastener	ET 4086-0-2	

Exploded view

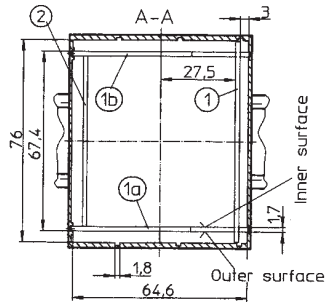


Dimensions

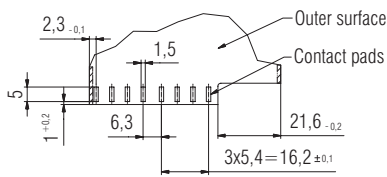
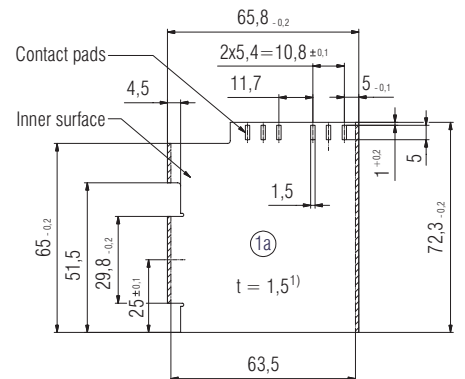
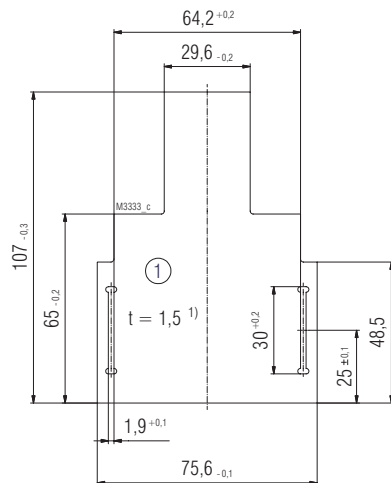
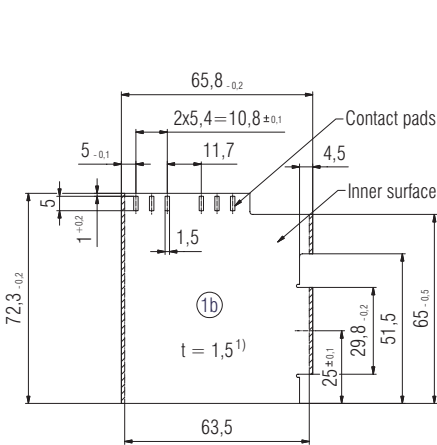
Top hat rail
EN 50 022



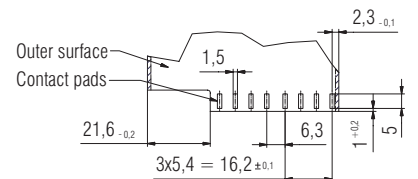
Solder connection
PCB ① mounted on right side
of enclosure



Printed circuit board designs

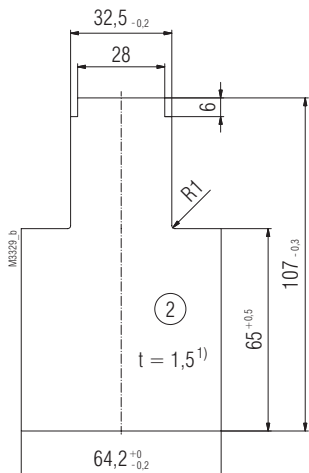


Recommendation for tin plating of contact pads.
Pure tin Sn100, 10.....30 μm thickness



▨ Inhibited surface
max. inner radius R1

¹⁾ Tolerance complying with DIN EN 60249-2-4
General tolerance : PERFAG 2 E



Notes on Housing Opening

1. Tool

- for all functions use 0.8 x 4.0 or 0.8 x 4.5 screwdriver

2. Removing of terminal blocks and 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.
- Terminal blocks with frame can be removed.

