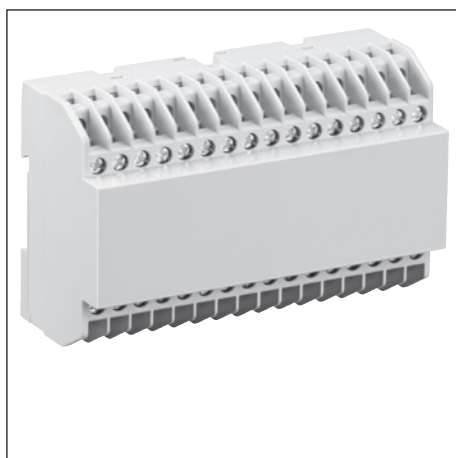
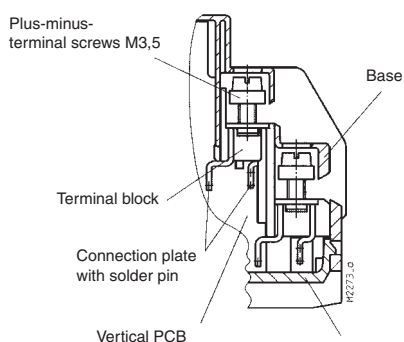


Insulated Enclosure KU 4091

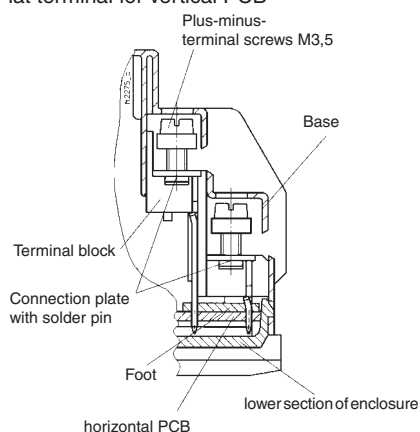
to DIN 43 880 for installation in distribution cabinets or surface mounting



- Width 140 mm
- optionally 32 or 64 plus-minus terminal screws with self raising terminal washers
Part insertion possible, available with blanking plugs
- Secure termination of max. 2 connection wires of differing cross section
- Machine solderable connection pins, additional wire connection possible
- available with EIB-plug-in
- available with ventilation slots
- Housing supplied as single parts, terminals prefitted in terminal blocks



Flat terminal for vertical PCB



Flat terminals for horizontal PCB

Technical Data

Order references:	
KU 4091.0037203:	64 terminals, soldering on vertical PC
KU 4091.0037202:	32 terminals, diagonally soldering on vertical PC
KU 4091.0037201:	32 terminals, in a row soldering on vertical PC
KU 4091.0036973:	64 terminals, soldering on horizontal PCB
KU 4091.0038001:	32 terminals, diagonally soldering on horizontal PCB
KU 4091.0038002:	32 terminals, in a row soldering on horizontal PCB

Outer dimensions:	140 x 90 x 59 mm
Enclosure material:	PC - GF, light grey RAL 7035

Temperature stability:	
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 Meth. B: 144 °C

Max. permitted power dissipation:	22 W for stand alone enclosure at normal climate 23/50-1	ISO 554
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Specific thermal resistance:	R _{th} = 4,5 K / W for stand-alone enclosure
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Flame retardancy complying with UL 94:	V-0
complying with IEC 60 707:	BH 2-30

Number of terminals:	64 / 32; < 64 / < 32 on request
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Terminal material:	Steel strip, tin-plated
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Max. cross section for connection:	2 x 2,5 mm ² solid 2 x 1,5 mm ² stranded min Ø 0.6 solid / 0.28 mm ² / 22 AWG	DIN 46 228-1/-2/-3/-4
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Insulation of wires length:	10 mm
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Max. contact resistance to printed circuit board:	20 mΩ
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Max. current carrying capacity:	16 A; 50 A on request
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Wire fastening:	Captive plus-minus-terminal screws M3,5 with self raising terminal washers. Function complying with IEC 60 999-1
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Torque:	max. 0,8 Nm
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Inner connection:	Machine solderable connection pin for PCB and soldering lug for stranded
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Enclosure fastener:	1) Snap-on fastener on top hat rail 2) Screw fixing M4, grid 90 mm with additional clip as accessory	EN 50 022
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Creepage current resistance:	CTI 175 ± insulated material III a	IEC 60 664-1
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Air gap and creepage distances		IEC 60 664-1
Vertical PCB:	Air gap distance: ≥ 4,0 mm Creepage distance: ≥ 6,3 mm	
Horizontal PCB:	≥ 3,2 mm	

Type of protection		
Enclosure:	not fixed: IP 30 fixed on DIN-rail or Screw fixing: IP 40	IEC 60 529
Terminals:	IP 20 Contact protection complies with VBG 4	IEC 60 529

Print area:	137 x 42 mm
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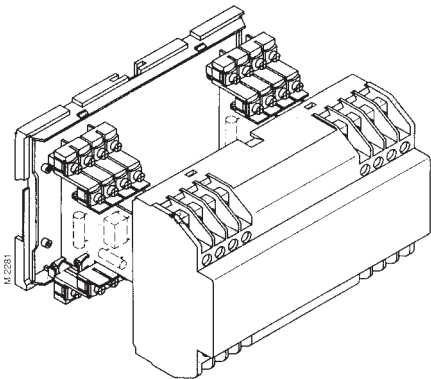
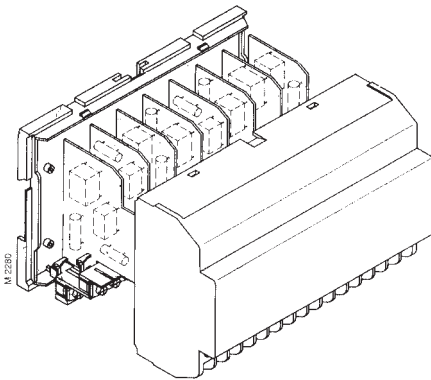
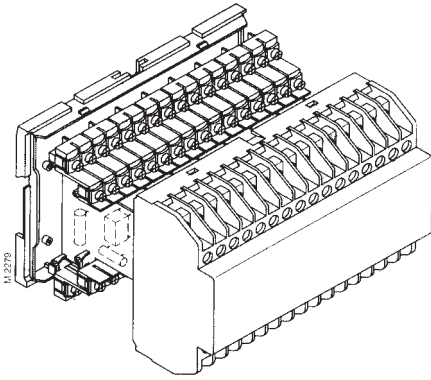
Printed circuit board:	See printed circuit board design
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Printed circuit board holder:	Guide ribs
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Net weight:	
with 64 terminals:	270 g
with 32 terminals:	230 g

Accessories:	
ET 4086-0-2:	Second clip for screw fixing
KU 4089-3-4:	Blanking plug for terminal block
KU 4087-0-2:	Blanking plug for Enclosure base
KU 4087-2-1:	Dummy terminal block for vertical PCB
KU 4089-3-1:	Dummy terminal block for horizontal PCB
KU 4089-3-3:	Double foot, for KU 4089-3-1 necessary, 2 pieces KU 4089-3-1 mounted on double foot
KU 4089-3-3.1:	Foot, for KU 4089-3-1 necessary, 1 piece KU 4089-3-1 mounted on foot

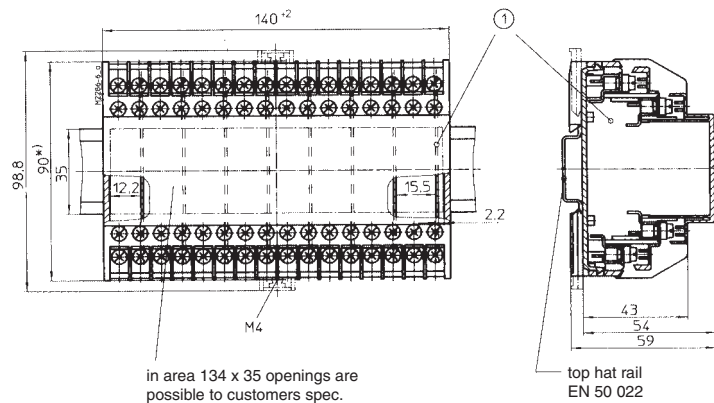
Exploded views



Dimensions Enclosure for vertical PCB

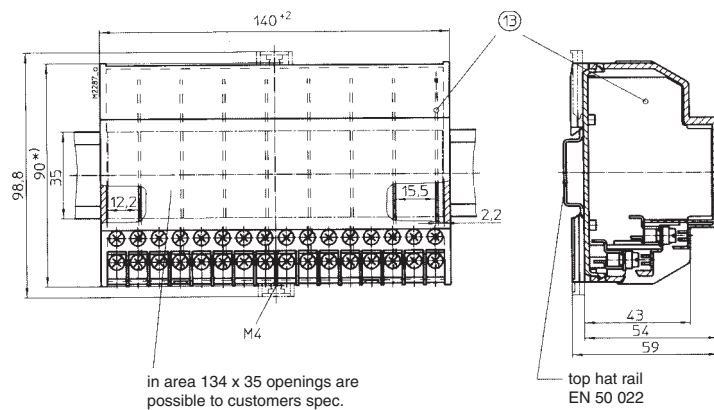
PCBs not included in deliveries

KU 4091.0037203



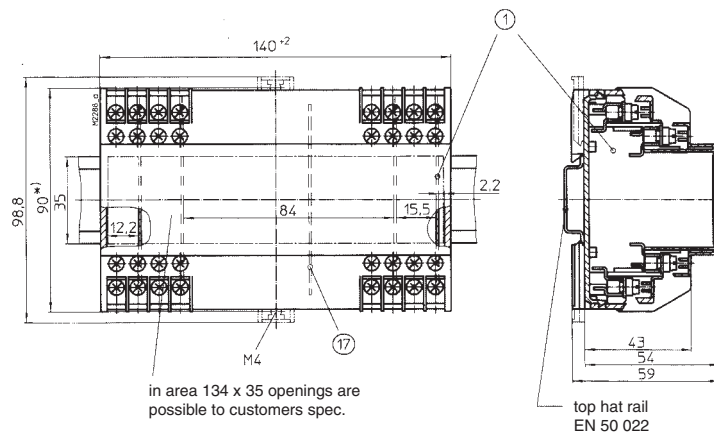
*) 100 mm for use with 2 clips KU 4089-0-29, on request

KU 4091.0037201



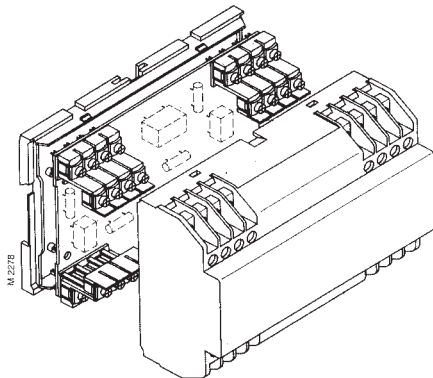
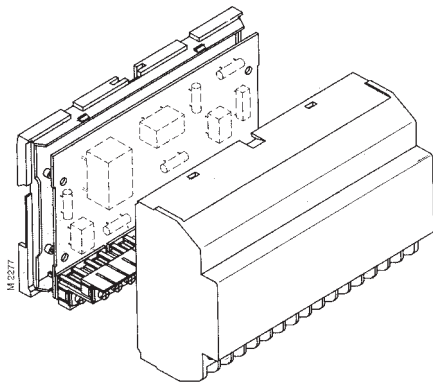
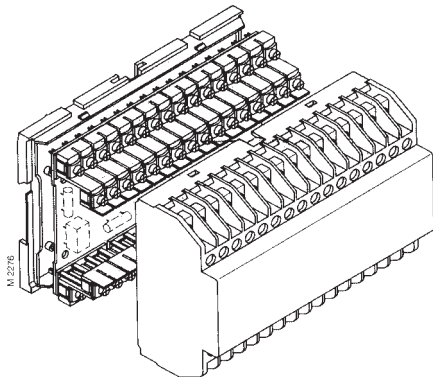
*) 100 mm for use with 2 clips KU 4089-0-29, on request

KU 4091.0037202



*) 100 mm for use with 2 clips KU 4089-0-29, on request

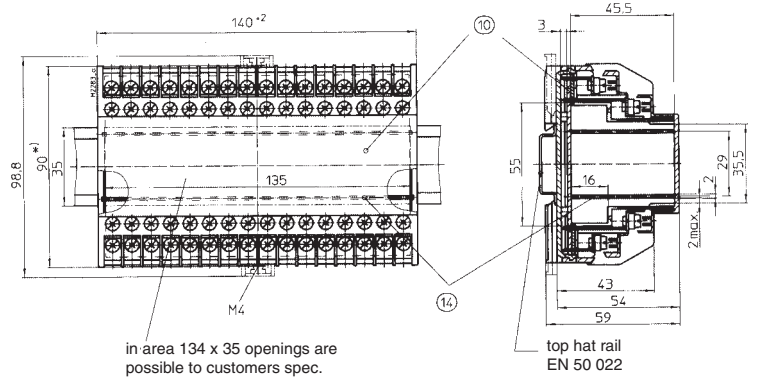
Exploded views



Dimensions Enclosure for horizontal PCB

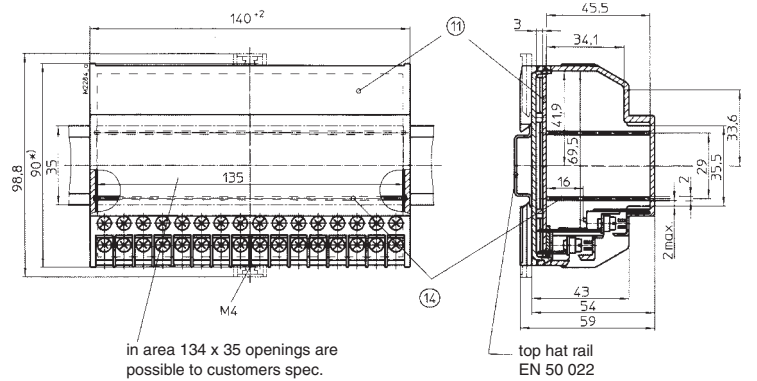
PCBs not included in deliveries

KU 4091.0036973



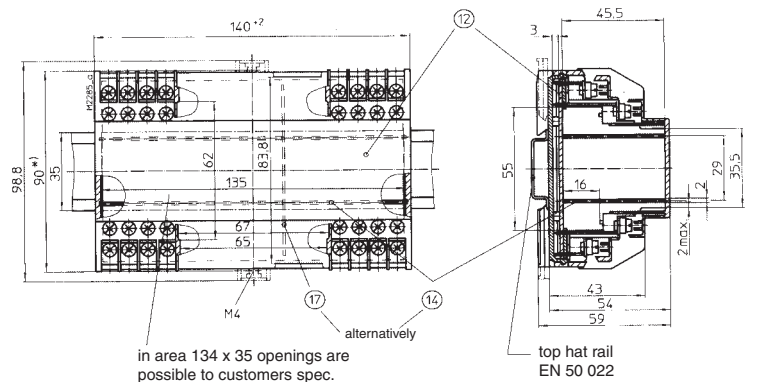
*) 100 mm for use with 2 clips KU 4089-0-29, on request

KU 4091.0038002



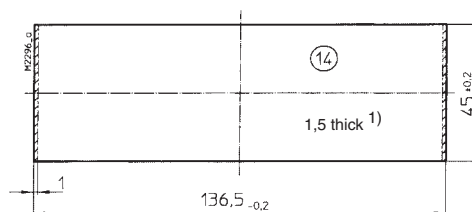
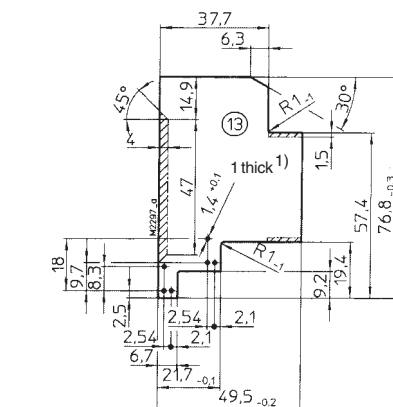
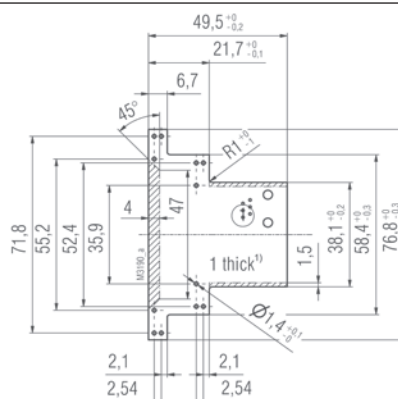
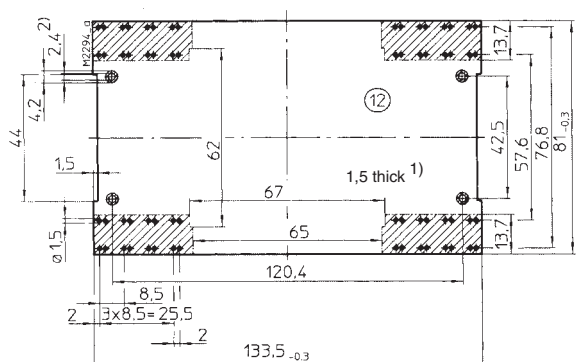
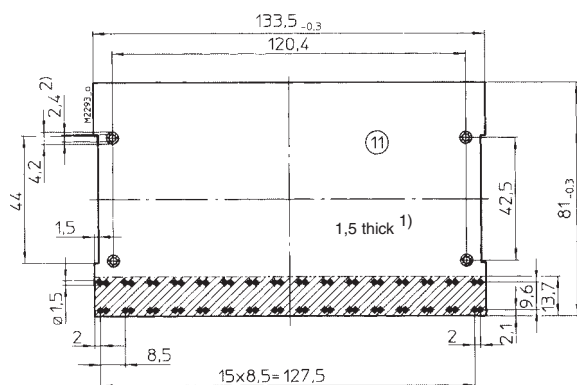
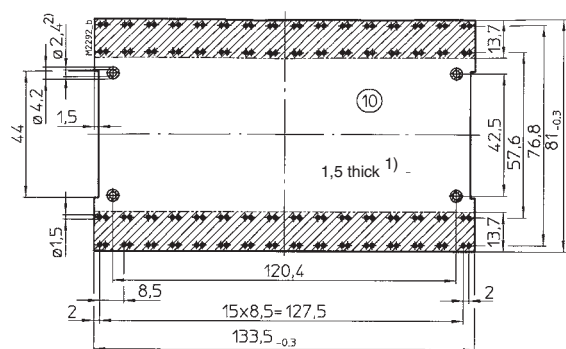
*) 100 mm for use with 2 clips KU 4089-0-29, on request

KU 4091.0038001



*) 100 mm for use with 2 clips KU 4089-0-29, on request

Printed circuit board designs

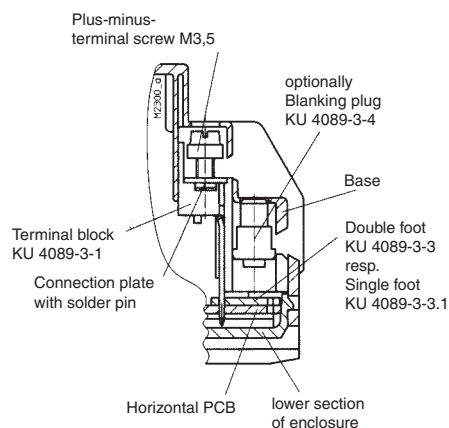
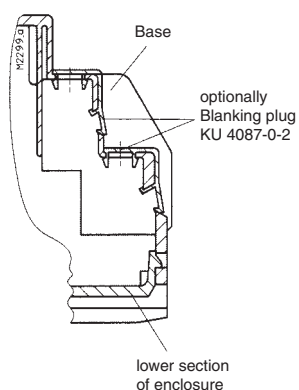


Inhibited surface

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

2) Hole $\varnothing$ 2,4 on request for cylindrical screws
ISO 1207 - M2 x 3 not included in deliveries

Accessories



• Width 140 mm

• Useable for Sensor and Aktor modules in EIB-system

• For standard EIB-plug-in, 2-pole

• 24 plus-minus-terminal screws with self raising terminal washers

• Part insertion possible, available with blanking plugs

EIB-plug-in

Base

M2x7.5

EIB-plug-in

Solder pin

Horizontal PCB

Lower section of enclosure

EIB-plug-in

Plus-minus-terminal screw M3,5

Base

Terminal block

Connection plate with solder pin

Foot

Horizontal PCB

Lower section of enclosure

Flat terminals for horizontal PCB

Further accessories see
standard enclosure KU 4091 to DIN 43 880

Technical drawing of the KU 4091 enclosure, showing top and side views with dimensions and callouts.

Top View Dimensions:

- Overall width: 140 ±2
- Overall height: 98.8
- Internal width (between side rails): 62.7
- Internal height (between top and bottom rails): 36.3
- Distance from top rail to first row of openings: 5.8
- Distance from bottom rail to last row of openings: 5.8
- Distance from left side rail to first row of openings: 35
- Distance from right side rail to last row of openings: 35

Callouts and Details:

- 30**: Points to the top rail assembly.
- 14**: Points to the bottom rail assembly.
- top hat rail EN 50 022**: Label for the rail type.
- M4**: Points to the mounting holes in the side rails.
- in area 134 x 35 openings are possible to customers spec.**: Text indicating the area for custom openings.

Side View: Shows the profile of the enclosure, highlighting the top and bottom rails and the internal structure.

Technical drawing of a rectangular plate with dimensions and tolerances. The drawing shows a plate with overall dimensions 120,4 ± 0,3 x 81 ± 0,3. It features four corner holes with diameter 13,7 and a central hole with diameter 30. There are also four rectangular holes with dimensions 62,7 ± 0,1 x 13,7. The plate has a thickness of 1,5 mm. The drawing includes a legend for 'Inhibited surface' and a note about tolerances.

Legend:

- Inhibited surface

Notes:

- 1) Tolerance complying with IEC/EN 60249-2-4
- 2) Hole $\varnothing$ 2,4 on request for cylindrical screws ISO 1207 - M2 x 3 not included in deliveries

Cover with ventilation slots

Technical Data:

Max. permitted
power dissipation: 22 W

Specific thermal resistance: $R_{th} = 2,5 \text{ K / W}$ for stand alone enclosure

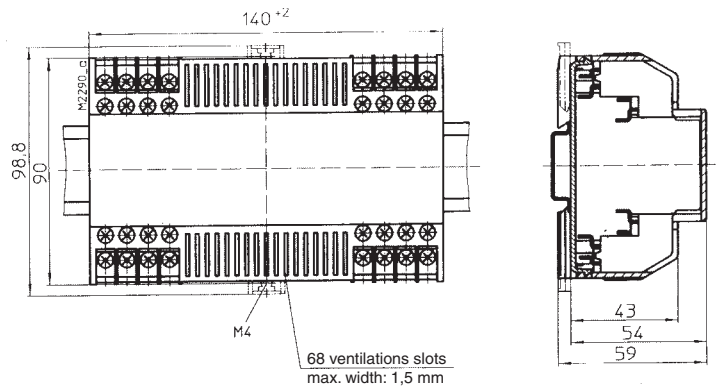
Type of protection

Enclosure: IP 30 IEC 60 529

Further technical Data see standard enclosure KU 4090re technische Daten siehe Standardgehäuse KU 4091

Maßbilder

KU 4091.0047674 for vertical PCB



KU 4091.0047471 for horizontal PCB

