

# ME MAX 90 3-3 KMGY VPE1 - Electronics housing



2201339

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DIN rail housing, Complete housing with metal foot catch, tall design, with vents, width: 90.4 mm, height: 99 mm, depth: 113.65 mm, color: light gray (similar RAL 7035), cross connection: DIN rail bus connector (optional), number of positions cross connector: 5

## Your advantages

- Easy installation
- Available in overall widths from 6.2 mm ... 90 mm, modular extension possible
- Variety of connection technology
- Can be mounted on the DIN rail
- With DIN-rail-mountable bus connector and power connector system as an option
- Transparent front cover can be swiveled

## Commercial data

Item number	2201339
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ACHABA
GTIN	4046356767149
Weight per piece (including packing)	149 g
Weight per piece (excluding packing)	149 g
Country of origin	DE

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## Technical data

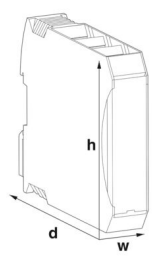
### Notes

Assembly note	Please observe the application note in the download area.
Recommendation	Material of contact pads for bus connector, galvanic gold (hard gold)

### Product properties

Product type	Complete housing
Housing type	DIN rail housing
Housing series	ME-MAX
Product family	ME MAX 90..
Number of positions	72 120
Max. number of positions	120 (pitch: 3.5 mm) 96 (pitch: 5 mm) 72 (pitch: 7.25 mm/7.5 mm)
Number of rows	3 3
Number (Connection openings)	6
Ventilation openings present	yes
Anzahl der Etagen Housing (Makro)	3 (Both sides)

### Dimensions

Dimensional drawing	
Width	90.4 mm
Height	99 mm
Depth	113.65 mm
Depth from top edge of DIN rail	107 mm

### PCB design

PCB thickness	1.4 mm ... 1.8 mm
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### Material specifications

Color (Housing)	light gray (RAL 7035)
Material Housing	PA
Flammability rating according to UL 94	V0

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CTI according to IEC 60112	600
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## Environmental and real-life conditions

### Power dissipation single housing for 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	10.4 W

### Power dissipation single housing for 30 °C

Ambient temperature	30 °C
Reduction factor	0.91
Mounting position	vertical
Power dissipation	9.45 W

### Power dissipation single housing for 40 °C

Ambient temperature	40 °C
Reduction factor	0.81
Mounting position	vertical
Power dissipation	8.4 W

### Power dissipation single housing for 50 °C

Ambient temperature	50 °C
Reduction factor	0.7
Mounting position	vertical
Power dissipation	7.3 W

### Power dissipation single housing for 60 °C

Ambient temperature	60 °C
Reduction factor	0.57
Mounting position	vertical
Power dissipation	5.9 W

### Power dissipation single housing for 70 °C

Ambient temperature	70 °C
Reduction factor	0.49
Mounting position	vertical
Power dissipation	5.1 W

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h

Test directions	X-, Y- and Z-axis
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#### Mechanical strength / tumbling barrel

Specification	IEC 60998-1:2002-12
Height of fall	50 cm
Frequency	10

#### Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

#### Degree of protection (IP code)

Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
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#### Ambient conditions

Max. IP code to attain	IP20
Ambient temperature (operation)	-40 °C ... 105 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Relative humidity (storage/transport)	80 %

#### PCB data

Number of PCB holders	4
Type of PCB mount	Latching
Thickness of the PCB	1.4 mm ... 1.8 mm

#### Mounting

Mounting type	DIN rail mounting
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#### Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton

## Drawings

Dimensional drawing



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

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## Classifications

### ECLASS

ECLASS-13.0	27190101
ECLASS-15.0	27190101

### ETIM

ETIM 9.0	EC001031
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### UNSPSC

UNSPSC 21.0	31261500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.888 kg CO2e
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